

AUTHOR INDEX

VOLUME 59

- Aarsman, C. J. M., 1289
Aarsman, Colinda J. M., 2713
Abbaszadegan, Morteza, 1318, 1473
Abdel Basit, H., 3130
Abdul-Raouf, U. M., 1999, 2364
Abee, T., 1041
Abee, Tjakko, 3577, 4216
Abeliovich, Aharon, 1403
Abouzied, Mohamed M., 1264
Acevedo, C., 3424
Ackermann, H.-W., 2914
Adachi, Yoshihiko, 3197
Adams, Hendrik, 3102
Adamsen, A. P. S., 485
Addleman, Katherine, 266
Agarwal, Sandeep K., 2771
Agosin, Eduardo, 4317
Ahearn, Donald G., 183
Ahn, C., 3906
Aho, Sirpa, 2622
Ahring, Birgitte K., 1742, 1963, 2538, 2546
Ahrné, S., 15
Akanuma, Satoshi, 2737
Akhtar, M., 2210
Akin, D. E., 644, 4274
Alabouvette, Claude, 74
Albert, M. J., 536
Alberts, J. F., 2673
Albertson, Helene, 3894
Alchanati, Iris, 1725
Alexander, Vera, 422
Alhonnaki, Kirs, 4010
Alic, Margaret, 4295
Allan, Deborah L., 1695
Allgood, N. G., 3602
Allison, Milton J., 3056
Almkerk, José W., 52
Almond, Brian D., 2442
Altendorf, Karlheinz, 3973
Alting, Arno C., 3640
Amann, Rudolf, 1520, 2293, 2397, 2753
Amann, Rudolf I., 1709
Amaral, L. A., 1647
Amirmozafari, Nour, 3314
Ammar, M. S., 1999, 2364
Amy, Penny S., 933
An, Zhi-Qiang, 1540
Andersen, Gary, 1593
Anderson, C., 3233
Anderson, Iris Cofman, 3525
Anderson, James B., 3044
Anderson, Robin C., 3056
Anderson, Sharon H., 2734
Ando, Yoshiji, 2486
Andreumont, Antoine, 942
Anello, Guido, 3928
Angle, J. S., 3130
Angles, M. L., 843
Anguita, Juan, 2411
Anikis, Michael S., 47
Anselmi, S., 3411
Aono, Rikizo, 2311
Apaire-Marchais, V., 3963
Aparna, K., 2558
Appel, S. M., 3505
Applegate, Bruce M., 1931, 1938
Apte, Shree Kumar, 899
Aquadro, C. F., 4180
Archibald, Frederick, 266, 1855
Archibald, F. S., 260
Arisan-Atac, Inci, 1347
Arita, Masatoshi, 1549
Armstead, Ian P., 3360
Arnold, Robert G., 2771, 3763
Arp, Daniel J., 2501, 3718, 3728
Arrage, Andrew A., 3545
Arredondo-Peter, R., 3960
Arvin, Erik, 2286
Asano, Yasuhisa, 1110
Ascon-Cabrera, Miguel, 1717
Asins, María José, 309
Asmundson, R. V., 3969
Atlas, Ronald M., 2139
Atmar, Robert L., 631
Aukrust, Thea, 2868
Averill, Bruce A., 250
Avery, Simon V., 2851
Axelsson, Lars, 2868
Azam, Farooq, 3701
Azcona-Olivera, Juan I., 1264
Bååth, E., 3605
Bae, Hee Dong, 2132
Bae, Jaeho, 628
Bae, Ji-Hyun, 2734
Bailey, James E., 561
Bains, K. K., 3505
Bak, Friedhelm, 101, 1452
Bakker, Peter A. H. M., 74
Balba, M. T., 3266
Baldi, Franco, 2375, 2479
Ballard, Gwyn, 1354
Bamford, D. H., 2190
Bandin, I., 2969
Bar, Raphael, 547
Barany, Francis, 2743
Barclay, Clayton D., 1887
Barea, J. M., 129
Barillier, Agnès, 1678
Bar-Joseph, M., 3123
Barkay, Tamar, 807, 3083
Barr, Brian K., 3032
Barta, Terese M., 458
Bartha, Richard, 290, 1201
Bassit, Naïma, 1893
Basso, Anna Lisa, 519
Batt, Carl A., 304, 687, 2743
Baxter, F., 3126
Beattie, Gwyn A., 1593
Beattie, S. E., 1054
Bebout, Brad M., 1495
Beckett, Ronald, 1864
Behki, Ram, 1955
Belin, J.-M., 2945
Belkin, Shimshon, 1403
Bellin, C. A., 1813
Belosevic, M., 3661, 3674, 4203
Bender, Carol L., 1619, 1627
Bender, C. L., 1018
Bendinger, Bernd, 3973
Bengmark, S., 15
Benito, Antoni, 3485
Benjamin, Arthur, 3032
Benkerroum, Noredine, 607
Bennett, Joan W., 3273
Benoit, Robert E., 3545
Bensoussan, M., 2945
Benthin, Stig, 3206
Bentjen, Steven A., 508
Beresford, Tom P. J., 3708
Bergman, B., 3239
Bergquist, Peter L., 1168
Berk, Sharon G., 3245
Bernet, Marie-Françoise, 4121
Bernier, Denis, 2034
Bernier, Louis, 1752
Berry, David A., 2332
Berry, Duane F., 2332
Berthier, Yvette, 851
Bertone, S., 1960
Besser, Richard E., 2526
Beuchat, L. R., 1999, 2364
Beveridge, Terry J., 4323
Beveridge, T. J., 1283, 4056
Bezborodnikov, Serguei G., 250
Bezmalinović, Tajana, 2220
Bhatnagar, D., 156, 479, 2264
Bhatnagar, Deepak, 3273, 3564
Bhatnagar, Lakshmi, 389
Bhattacharya, Meenakshi, 2666
Bhatti, Tariq M., 1984
Bhosle, S., 1691
Bifulco, Joseph M., 772
Bigham, Jerry M., 1984
Billaudel, S., 3963
Binder, R. G., 3321
Birkbeck, T. H., 3981
Birkeland, Nils-Kåre, 1966
Birkeland, Stein-Erik, 2868
Black, E. K., 3661, 3674, 4203
Blais, Burton W., 2795
Blake, Cheryl K., 3027
Blanco, J. L., 1515
Blasco, Rafael, 1774
Blaszczuk, Mieczysław, 3951
Bleakley, Bruce H., 508
Blom, Hans, 2868
Blomberg, L., 34
Bockelmann, Wilhelm, 2049
Bodelier, Paul L. E., 2317
Boehm, M. J., 4171
Boesch, Brian W., 2465
Bogte, Jaap J., 3373
Boldrin, Beate, 1927
Bollag, J.-M., 701
Bolton, Harvey, Jr., 508
Bonet, Ramon, 2437, 3516
Boominathan, K., 3946
Boone, David R., 2977
Boone, Jane E., 3832
Boquien, Clair-Yves, 1893
Börmann-El Kholy, Elke R., 2329
Borneman, W. S., 644
Bostian, Keith A., 3070
Bott, Thomas L., 1526, 1532
Bouchet, Anne, 942
Boudra, H., 2864
Bourbonnais, R., 260
Bourque, Sylvie N., 523
Bouwer, Edward J., 3255
Bouzar, Hacène, 1310
Bowman, John P., 960, 2380
Box, Adrienne T. A., 1342
Boyaval, P., 4004
Boyd, Glenn, 1030
Boyen, A., 3878
Boyle, Alfred W., 3027
Bradburne, James A., 663
Brandt, E. Vincent, 1487
Brassart, Dominique, 4121
Braun-Howland, Ellen B., 3219
Braus-Stromeyer, Susanna A., 3790
Breidt, F., 3778
Brenner, Kristen P., 3534
Brenner, V., 2790
Breure, Anton M., 3373
Brezny, R., 3424
Brillet, J., 3963
Broadaway, Susan C., 1410
Bröer, Stefan, 316
Bron, Sierd, 358
Brooks, Harold G., 3585
Brooks, Myron H., 2304
Brosch, Roland, 4367
Brousseau, Pierre, 1228
Brousseau, R., 114
Brown, Donald E., 1072
Brown, J. L., 3321
Brown, Julie A., 4295
Brown, Matthew L., 2320
Brown, Nigel L., 2531
Brown, Stephen H., 2614
Bruce, K. D., 4024
Bruce, Neil C., 2166
Bruinenberg, Paul G., 3640
Bruins, Andries P., 1430
Bruno, Maria E. C., 3003
Brusseau, Mark L., 4266
Bryant, Richard D., 491
Bsat, Nada, 304
Buchanan, Robert L., 4245
Burbach, Brian L., 1025
Burdige, David, 3525
Burgers, S. L. G. E., 743
Burgess, J. Grant, 3757
Burggraaf, Arie, 2589
Burggraf, Siegfried, 2918, 3816
Burghoff, Robert L., 1972
Burlage, Robert, 3083
Busscher, H. J., 4305
Buttner, Mark P., 219
Button, D. K., 881
Button, Don K., 2150
Buxton, Dwayne R., 405
Buyer, Jeffrey S., 677
Byrne, Carolyn R., 892
Cabana, Jean, 114
Cacciari, I., 3695
Calderón, C., 2648
Caldwell, D. E., 2388
Cambra, M., 1805
Campanile, Ciro, 519
Campbell, A. T., 2638, 4361
Camper, Anne K., 3455
Cancel, Aida M., 2909
Candau, P., 3161
Candrian, U., 2161
Canganella, F., 3498
Cao, Zhi-Yi, 4198

- Capone, Douglas G., 669
 Carli, A., 1960
 Carlson, Liisa, 1984
 Carnegie, Susan R., 4189
 Caron, D. A., 1647
 Carpenter, E. J., 3239
 Carr, Noel G., 3736
 Carreau, Pierre J., 1242
 Carroll, Karen, 344
 Cary, Jeffrey W., 3273, 3564
 Casareto, L., 1960
 Casillas, Robert P., 2145
 Casolari, Chiara, 614
 Castenholz, Richard W., 163, 170
 Castillo, Francisco, 1774
 Cebolla, Angel, 2511
 Cebula, Thomas A., 556, 2765
 Cerniglia, Carl E., 800, 1731, 1977, 2145
 Cesselin, B., 2369
 Cevenini, Roberto, 3938
 Cha, Jae-Soon, 1671
 Chakrabarty, A. M., 1181
 Chalmers, R. M., 3126
 Chamberland, H., 2578
 Chambliss, Glenn H., 1138
 Chamier, Bärbel, 1662
 Champagne, Claude P., 2022
 Chang, Cheng, 815
 Chang, Perng-Kuang, 1642, 3273
 Chang, Shenq-Chyi, 981
 Chao, Yun-Peng, 4261
 Chapot-Chartier, Marie-Pierre, 330
 Charlier, D., 3878
 Chastagner, Gary A., 1786
 Chauvet, E., 3367
 Chauvet, Eric, 502
 Chávez, S., 3161
 Chen, Hancai, 1058, 1798
 Chen, Jianchi, 4367
 Chen, Mario, 3894
 Cheng, K.-J., 2132
 Cheng, Tu-chen, 3138
 Chevrier, Danièle, 851
 Chikindas, Michael L., 3577
 Choi, Jung H., 663
 Choi, Sung-Chan, 290
 Chopin, Alain, 330
 Chopin, Marie-Christine, 330
 Choquet, C. G., 27
 Choquet, Christian G., 912
 Christian, James K., 1786
 Christy, Jane B., 541
 Chrzanowska, Justyna, 3076
 Chu, Fun S., 3564
 Civerolo, E. L., 243
 Clark, D. L., 2271
 Clark, James A., 380
 Clark, Robert M., 1668
 Clark, Thomas R., 2375
 Clarke, A., 3989
 Clarke, R. C., 1981
 Claxton, Larry D., 3585
 Cleveland, T. E., 156, 479, 2264
 Cleveland, Thomas E., 3273, 3564
 Cohen, Zvi, 1403
 Colbert, Stephen F., 2056, 2064, 2071
 Coleman, John R., 2404
 Coll, Pedro M., 2607, 4129
 Collmer, Alan, 1756
 Colwell, Rita R., 47
 Colwell, R. R., 987, 997, 1231, 3406, 3474
 Comi, Giuseppe, 1838
 Congregado, Francisco, 2437, 3516
 Conway, P. L., 34
 Conway de Macario, Everly, 2538
 Cook, Alasdair M., 3790
 Cook, Gregory M., 2984
 Cook, Mike L., 467
 Cooke, Peter H., 4245
 Cooksey, Donald A., 580, 1627, 1671
 Coratza, Grazietta, 4037
 Cornish, Anthony, 4236
 Corre, C., 4004
 Corrieu, Georges, 1893
 Corring, Tristan, 2876
 Corzo, J., 1805
 Costerton, J. William, 340
 Cotta, Michael A., 189, 3557
 Couch, Heather, 3763
 Coulter, Catherine, 706, 1461
 Cousin, M. A., 2563
 Couteaudier, Yvonne, 1767
 Coutlakis, M. Denise, 2457
 Covert, Sarah, 3492
 Covert, Terry C., 2758
 Cox, Julian M., 2602
 Crandall, Allison D., 2552
 Crawford, Don L., 508, 2171, 2642, 3899
 Crawford, R. L., 1635
 Crawford, Ronald L., 2171
 Creason, John P., 3585
 Cresti, Stefania, 4037
 Criddle, Craig S., 2126
 Cronenberg, Carel C. H., 2474, 3803
 Crow, Sidney A., 2145
 Crow, Vaughan L., 3177
 Crowley, K. A., 3778
 Cubarsi, Rafael, 3485
 Cullen, Daniel, 3492
 Cullum, John, 2220
 Cunningham, Alfred B., 3455
 Cunningham, Daryl P., 7
 Cusack, Timothy M., 1579
 Cutter, Catherine Nettles, 2326
 Czajka, John, 304
 Dabard, Jean, 2876
 Daboussi, Marie-Josée, 1767
 Dai, Shu-Mei, 815
 Dakota, Felix D., 636
 Dallmier, Anthony W., 2082
 Daly, Charles, 777
 Daly, J. G., 2178
 Dana, James R., 417
 Daniel, J. F., 1143
 Daniel, Roy M., 1168
 Daniel, Steven L., 3062
 Daniels, C. W., 3661
 Daniels, M. J., 3996
 Datta, Atin R., 144, 3495
 Davies, D. G., 1181
 Davis, Alison A., 1294
 Davis, Ruth, 777
 Dawson, K. A., 2631
 Dawson, Karl A., 1467
 Dean, Donald H., 2442
 Dean, Jeffrey F. D., 3212
 de Beer, D., 573
 de Beer, Dirk, 2474, 3803
 de Boer, Jan P., 2474
 de Boer, Wietse, 1951
 de Bont, Jan A. M., 567, 3502
 de Bruijn, Frans J., 1702
 De Cort, S., 2352
 Decoux, Guy, 851
 De Felice, Maurilio, 519, 4313
 DeFlaun, M. F., 1735
 Degheele, D., 1821, 1828
 de Jong, Ed, 4031
 de Kogel, Willem Jan, 74
 Delécluse, Armelle, 3922, 3928
 DeLong, Edward F., 4152
 DeLong, E. F., 1647
 Demirci, Ali, 203
 Demuth, Jutta, 3378
 Denis, Jean-Baptiste, 851
 Denolf, P., 1821, 1828
 Denome, Sylvia A., 2837
 Desjardins, Anne E., 2359
 Desmarchelier, P. M., 3011
 Desmarez, L., 3878
 Desmazeaud, M., 1416
 Dessaux, Yves, 1310
 Devasia, Preston, 4051
 de Vos, Willem M., 213
 de Vries, Egbert J., 2150
 de Vries, J., 4305
 de Waal, Ellen C., 695
 Dewailly, Eric, 1228
 Dhawale, Shree S., 1675, 2335
 Dicaire, Chantal J., 912
 DiChristina, Thomas J., 4152
 Dick, Warren, 1955
 Dickson, Linda, 718
 Diels, Ludo, 334
 Dierkes, Wilfried, 2029
 Dijkema, Cor, 1114
 Dijkhuizen, L., 4330
 Di Maggio, Tiziana, 4037
 Dischinger, H. C., Jr., 479
 Djordjevic, Michael A., 3385
 Do, H. K., 3934
 Dobbinson, Selwyn, 3871
 Dobert, Raymond C., 4371
 Dodds, Walter K., 3592
 Dodge, C. J., 109
 Doke, Noriyuki, 3197
 Dolina, Marisa, 442
 Doménech, A., 1515
 Domínguez, Angel, 2087
 Donachie, W., 3126
 Donaldson, J., 987
 Donnelly, Paula K., 2642
 Donnison, A. M., 922
 Doornweerd, Rianne E., 3400
 Dornai, D., 3123
 Dosoretz, C., 3946
 Dosoretz, Carlos G., 1919
 Doss, Robert P., 1786
 Dostal, Larry, 281, 725, 2244
 Dow, J. M., 3996
 Dowling, John N., 4096
 Doyle, Jack D., 508
 Doyle, Michael P., 2526
 Drake, Harold L., 3062
 Driessen, Arnold J. M., 3577
 Drobner, Elisabeth, 2918
 Drost, Yvonne C., 2956
 Drury, William J., 327
 D'Souza, T. M., 3946
 D'Souza-Ault, Marian R., 473
 Dubrou, S., 1213
 Duffy, J., 3266
 Dufour, Alfred P., 3534
 Duguay, Linda, 669
 Dunican, L. K., 791
 Dunnigan, M. E., 4347
 Dupuis, C., 4004
 Dupuy, J., 2864
 Durette, A., 1981
 Durmaz, Evelyn, 208
 Duyts, Hendrik, 2099
 Dwyer, Daryl F., 2746
 Dybas, Michael J., 2126
 Edler, Chris, 3592
 Edwards, Clive, 3327
 Edwards, Rick T., 1864
 Eggeling, Lothar, 316
 Egli, Thomas, 3350
 Egozy, Yair, 1410
 Eichem, Angela C., 3592
 Eikmanns, Bernhard J., 2329
 Einarsson, Sigurbjorn, 3666
 Eisinger, Hans-Jürgen, 599
 Ekiel, Irena, 912, 1092, 1099
 Elaraki, Abdelhafour Tantaoui, 607
 El-Din Sharabi, Nagim, 1201
 Elenbogen, Gilbert, 3183
 Ellis-Evans, J. C., 3989
 El-Shaarawi, Abdul H., 380
 El-Sharkawy, Saleh H., 725
 Emond, Eric, 2690, 2698
 Endo, Hiroshi, 620
 Entian, K.-D., 296
 Entry, James A., 2642
 Eparvier, Agnes, 1767
 Erb, Rainer W., 4065
 Erickson, Bruce D., 3858
 Ericsson, Per, 2293
 Eriksson, Karl-Erik L., 3212
 Eriksson, K.-E. L., 4274
 Escamilla, E., 3960
 Estela, Luis A., 617
 Estes, Mary K., 631
 Estrella, M. Rocio, 4266
 Ettriki, A., 2698
 Evans, Frederick E., 800, 1977
 Exterkate, Fred A., 3640
 Fabio, Ugo, 614
 Facinelli, Bruna, 614
 Fairchild, Tim M., 1247
 Fallik, Elazar, 1883
 Falmagne, P., 3878
 Fan, M. J., 3996
 Fan, Shifang, 1911
 Färdig, M., 2204
 Farías, Ricardo N., 2760
 Farquhar, Grahame F., 1887
 Farrell, Richard E., 1507
 Faurie, Geneviève, 1361
 Fedorak, Phillip M., 2229
 Felsenstein, A., 536
 Ferguson, N. H., 3602
 Fernandes, Tonina A., 899

- Fernández-Abalos, Jose M., 2607
 Fernández-Valverde, Martiniano, 1149
 Ferrara, Lino, 519
 Ferretti, Joseph J., 1969
 Ferri, Mario, 2056, 2071
 Fevre, Michel, 3654
 Fiechter, Armin, 2897
 Field, Jim A., 4031
 Filippelli, Marco, 2479
 Finch, G. R., 3661, 3674, 4203
 Finson, Naomi, 1332
 Finster, Kai, 101, 1452
 Fisher, William S., 1012
 Fitch, Mark W., 2771
 Fitzgerald, Gerald F., 777
 Fitzpatrick, Matthew W., 1495
 Flehmig, Bertram, 3165
 Fleming, H. P., 3778
 Flemming, H.-C., 3850
 Flickinger, Michael C., 2927
 Fliss, Ismail, 2690, 2698
 Florencio, F. J., 3161
 Flors, A., 1376
 Fluit, A. C., 1289, 1342
 Fluit, Ad C., 2713
 Flyvbjerg, John, 2286
 Focht, D. D., 1194, 2790
 Foegeding, P. M., 1247
 Fogleman, James C., 1
 Foor, Forrest, 3070
 Forlani, Giuseppe, 519
 Forsten, T., 2190
 Fortnagel, Peter, 3931
 Foster, Joan L. M., 1
 Fox, Alvin, 4354
 Fraefel, Cornel, 2897
 Francis, A. J., 109
 Francis, Matthew S., 3050
 Franco, Eduardo, 2418
 Frattamico, Pina M., 4245
 Frazer, Anne Cornish, 3157
 Fredrickson, James K., 508
 Freeman, James P., 800, 1977
 Freer, Shelby N., 1398
 Fremaux, C., 3906
 Frenkel, H., 3123
 Fries, Marcos R., 250
 Frijters, Carla T. M. J., 1003
 Fritzsche, Christian, 1927
 Frostegård, Å., 3605
 Frumholtz, P. P., 3147
 Frustaci, Jana M., 2347
 Fu, Peter P., 2145
 Fuhrman, Jed A., 1294
 Fujiwara, Shinsuke, 1104
 Fujii, Ryouji, 3150
 Fujikura, Yoshiaki, 1336
 Fujimura, Setsuo, 2107
 Fukasaku, Kazuaki, 3334
 Fuks, Dragica, 4074
 Funk, Stephen B., 2171
 Fuse, Hiroyuki, 924
 Gallacher, Susan, 3981
 Gálvez, Antonio, 1480
 Gambin, O., 243
 Gandhi, Parul A., 183
 Ganio, Lisa M., 594
 García-Garcera, Maria J., 3577
 García-Pichel, Ferran, 163, 170
 Gardner, Nancy, 2022
 Garnier, Josette, 1678
 Gartner, Elena, 1058
 Garzaro, C., 3411
 Gauthier, Joseph J., 2320
 Geesey, G. G., 1181
 Gehin, A., 3154
 Geiger, J. P., 2578
 Gelderblom, W. C. A., 2673
 Gelhaye, E., 3154
 George, S. Elizabeth, 3585
 Georgiou, George, 2771
 Gerba, Charles P., 1318, 1473
 Gerba, C. P., 3513
 Germida, James J., 1507
 Germon, Pierre, 1955
 Gerwig, Gerrit J., 828
 Gessner, Mark O., 502
 Gessner, M. O., 3367
 Gewaily, E. M., 3130
 Ghaffari, Seyed H., 2830
 Ghani, Baharuddin, 1176
 Ghorre, William C., 687
 Giæver, Hanne M., 1848
 Gill, Sarjeet S., 815
 Gillman, Mark, 807
 Gilmour, A., 3117
 Gilmour, M. Ian, 3585
 Giomo, Andrea, 4166
 Giovanetti, Eleonora, 614
 Giovannoni, Stephen J., 3941
 Giuseppin, Marco L. F., 52
 Givaudan, Alain, 1361
 Glansdorff, N., 3878
 Glässer, Andrea, 1898
 Glatz, Bonita A., 83
 Glaus, Martin A., 4350
 Gleave, Andrew P., 1683
 Glover, L. Anne, 919, 1391
 Glumoff, Tuomo, 4010
 Godfrey, Paul, 663
 Goff, Denyse, 1425
 Gold, Michael H., 1779, 4295
 Gomez de Segura, Beatrice, 3654
 Gómez-Lucía, E., 1515
 González, B., 3424
 González, Ramón, 2801
 González-Segura, Alicia, 1480
 Goodman, A. E., 843, 1035
 Goodman, R. N., 2572
 Goodnough, Michael C., 2339
 Gopal, Pramod K., 3177
 Gordon, Andrew S., 60
 Gorris, M. T., 1805
 Goswami, Biswendu B., 2765
 Gottschal, Jan C., 2150, 2678
 Goulet, J., 2914
 Goulet, Philippe, 496
 Goyache, J., 1515
 Graff, Judith, 3165
 Graham, David W., 2771
 Gram, Lone, 2197
 Gravius, Birgit, 2220
 Greenberg-Ofrath, Noa, 547
 Greene, R. V., 1259
 Greenwood, M., 987
 Griffin, H. L., 1259
 Gripon, Jean-Claude, 330
 Grolle, Katja C. F., 1003
 Gu, Binhe, 422
 Gudmundsson, Jon, 3666
 Guerinet, Mary Lou, 1688
 Guesdon, Jean-Luc, 851
 Gueugneau, Anne-Marie, 2876
 Gunsalus, Robert P., 3832
 Guo, L. Y., 2323
 Gutmann, Marcella, 2329
 Gutnick, David L., 2807
 Gyles, C. L., 1981
 Gyürek, L., 3674, 4203
 Haachtela, Kielo, 4143
 Haandrikman, A. J., 1041
 Haandrikman, Alfred, 2049
 Hadar, Yitzhak, 1919, 4115
 Häggblom, Max M., 1162
 Hahn, Dittmar, 1709, 2753
 Haigler, Billy E., 2239
 Hailes, Anne M., 2166
 Haines, John R., 2758
 Haldeman, Dana L., 933
 Hale, Alan B., 2214
 Hall, Geraldine S., 1187
 Hamada, Shigeyuki, 729, 968
 Hamasaki, K., 3934
 Hamasaki, Nobuko, 2720
 Hamasaki, Takashi, 2486, 2493
 Hamelin, Richard C., 1752
 Hamer, John E., 585
 Hamilton, John T. G., 1461
 Hammer, Beth, 2339
 Hammer, Karin, 4363
 Handelsman, Jo, 2184
 Hanne, L. F., 3505
 Hansen, Egon Bech, 21
 Hansen, Geir Høvik, 1848
 Hansen, Jens Würigler, 101
 Hansen, J. Norman, 648
 Hansen, Theo A., 828, 837
 Hanson, Richard S., 3339
 Hantula, J., 2190
 Hanzawa, Satoshi, 610
 Harder, Wim, 2150
 Hardoyo, 3744
 Harper, David B., 706, 1461
 Harrington, Clare S., 4101
 Harris-Young, Linda, 1012
 Harsono, Kartika D., 3141
 Hartel, Peter G., 1883
 Hartley, Brian S., 4230
 Hartman, Paul A., 936
 Hartman, Petr, 3091
 Hartmans, Sybe, 2823, 3502
 Hartung, J. S., 1143
 Harvey, J., 3117
 Harvey, Ronald W., 2304
 Harvey, Steven P., 3138
 Harwood, Valerie J., 60
 Hasan, M. K., 536, 652
 Hashimoto, Yoshiteru, 347
 Hatfield, Ronald D., 405, 3171
 Hathout, Y., 2945
 Havel, Jürgen, 2706
 Havelaar, Arie H., 2956
 Hayashi, Takaya, 1555
 Hayatsu, Masahito, 2121
 Hayes, Jason T., 3455
 Hayman, J. Russell, 2830
 Hazen, Terry C., 2380
 Healing, T. D., 987
 Hébert, Jacques, 2034
 Hedges, Rebecca J., 1683
 Heery, D. M., 791
 Hegedus, Dwayne D., 4283
 Heidelberg, John F., 3474
 Heijman, Cornelis G., 4350
 Heijnen, C. E., 743
 Heistek, Jolanda C., 52
 Helander, Ilkka M., 4143
 Hellman, Jukka, 927
 Hemme, Denis, 177
 Hendricks, Charles W., 508
 Hendry, M. J., 2388
 Henderson, Mavis, 2056, 2064, 2071
 Henis, Yigal, 4342
 Henriksson, A., 34
 Henrysson, Tomas, 1602
 Herman, David C., 340
 Herman, R. Peter, 3021
 Hermann, René, 3790
 Hermansson, M., 1035
 Hermes, H. F. M., 4330
 Hermoni, Iris, 1403
 Hernandez, B. S., 2790
 Hernández, F. Javier, 1515
 Herrera, M. A., 129
 Herrick, James B., 687
 Hickey, W. J., 1194
 Higa, Futoshi, 1943
 Higashihara, T., 712
 Higgins, I. John, 1072
 Hild, E., 1035
 Hill, Colin, 2449
 Hill, R. T., 3406
 Hill, Russell T., 47, 997
 Hindley, John, 3470
 Hino, Tsuneo, 255
 Hinrichsen, Patricio, 3477
 Hinton, Stephen M., 1972
 Hirano, Susan S., 1082
 Hisham, N. Zul, 1176
 Hoaki, Toshihiro, 610
 Hodits, Regina, 1347
 Hodson, Robert E., 915
 Hohn, Thomas M., 2359
 Hoitink, H. A. J., 4171
 Højberg, Ole, 431
 Holck, Askild, 2868
 Holliger, Christof, 2991, 4350
 Hollin, Walter, 1540
 Holo, Helge, 1966
 Holzenburg, A., 3498
 Homstead, Juli, 3525
 Hooper, Alan B., 3597
 Hooyberghs, Liliane, 334
 Hopkins, G. D., 2277
 Hopper, David J., 1125
 Horgen, Paul A., 3044
 Horikoshi, Koki, 2311
 Hornes, Erik, 2938
 Hoshino, Takayuki, 3150
 Hotta, Yasushi, 1504
 Houwen, Frans P., 3803
 Hoyt, Julie A., 594
 Hranueli, Daslav, 2220
 Huang, C. M., 3969
 Huang, P. Ming, 1507
 Huang, Zhixian, 2244
 Huber, Mary S., 1318
 Huber, Robert, 2918
 Hugenholtz, Jeroen, 213, 4216
 Humphrey, Tom J., 3120
 Hunik, Jan H., 1951
 Hunt, Cheryl L., 892

- Hunter, J. E., 4180
 Hunter, William J., 1947
 Huot, Roger, 4335
 Hurek, Thomas, 3816
 Hyman, Michael R., 3718, 3728
 Hynes, Wayne L., 1969
 Hyvärinen, T., 2190
 Iglesias, Francisco J., 2087
 Iivanainen, E. K., 398
 Imai, Yuiji, 2857, 3225
 Imam, S. H., 1259
 Imanaka, Tadayuki, 953
 Inamori, Yoshihiko, 620
 Ireland, John C., 1668
 Irwin, Diana, 3032
 Isakeit, Thomas, 2056
 Ishimaru, Carol A., 4189
 Islam, M. S., 536, 652
 Ismail, A. K. Mohamed, 1176
 Israeli, Eitan, 594
 Israelsen, Hans, 21
 Ito, Susumu, 1336
 Ito, Takeru, 2343
 Iwanami, Setsuo, 1206
 Iyer, Vimala, 899
 Jack, Thomas R., 4101
 Jacobs, Dan, 3474
 Jacobsen, Carsten Suhr, 1560
 Jacobsen, Heather, 1579
 Jacquemoud-Collet, J. P., 243
 Jannasch, Holger W., 610
 Jansen, Antonius H. J., 3648
 Janssens, S., 1821, 1828
 Janssen, Dick B., 528, 2041, 2777, 3400
 Janssen, Peter H., 2984
 Jareonkitmongkol, Saeree, 4300
 Jarvis, Audrey W., 3708
 Jenal-Wanner, Ursula, 3350
 Jendrossek, Dieter, 1220
 Jenkins, Michael B., 3306
 Jensen, Bjørn K., 2286
 Jensen, Kim, 3287
 Jensen, L. Bogo, 3713
 Jensen, Mark A., 945
 Jensen, Peter Røhdel, 4363
 Jeppsson, B., 15
 Jiang, Sunny C., 718
 Jiménez, Luis, 2380
 Jiménez-Díaz, R., 1416
 Jobin, Marie, 2034
 Johansson, M.-L., 15
 Johnson, C. H., 4347
 Johnson, Eric A., 1842, 2339, 3825
 Johnson, Kenneth E., 203, 1155
 Johnson, Mark S., 3509
 Johnson, Marshall W., 1332
 Johnson, Richard L., 2977
 Johnsonbaugh, David, 4056
 Joint, Ian R., 3736
 Joly, Jean, 1228
 Jones, Jeffrey B., 1310
 Jones, Kerina H., 1125
 Jones, Warren L., 3455
 Joost Teixeira de Mattos, M., 2474
 Jørgensen, Bo Barker, 3840
 Jørgensen, Claus, 2286
 Jørgensen, Kirsten S., 3297
 Joseph, Cecilia M., 636
 Josephson, Karen L., 1473
 Josephson, K. L., 3513
 Joshi, Dinesh K., 1779
 Jothikumar, N., 2558
 Joyce, T., 3424
 Judd, Adam K., 1656, 1702
 Juliette, Lisa Y., 3718, 3728
 Jung, Elyse D., 3032
 Jung, Hans-Joachim G., 3171
 Jurasek, L., 260
 Kaal, Erwin E. J., 4031
 Kahane, Itzhak, 547
 Kaiser, J.-P., 701
 Kakinuma, Katsumi, 2720
 Kakizono, Toshihide, 867
 Kakudo, Shinji, 3978
 Kaletta, C., 296
 Kaliwal, S. M., 1691
 Kalman, Sue, 1131
 Kamatchiammal, S., 2558
 Kamimura, Kazuo, 924
 Kampbell, Don H., 467
 Kamphuis, J., 4330
 Kane, Matthew D., 682
 Kaneva, Zoya, 3713
 Kang, Hyo-Jung, 3798
 Kaplan, Louis A., 1526, 1532
 Kapperud, Georg, 2938
 Kaprelyants, Arseny S., 3187
 Kashket, Eva R., 4198
 Kaspar, Charles W., 3141
 Kaspar, C. W., 2425
 Katila, M.-L., 398
 Kato, Ichiro, 2963
 Kato, Junichi, 3744
 Kato, Shosuke, 1206
 Kawabata, Shigetada, 968
 Kay, B., 2740
 Keener, William K., 2501
 Keim, Lois G., 1972
 Keister, Donald L., 4136
 Kelemu, Segenet, 1756
 Kell, Douglas B., 3187
 Keller, B. H. I., 1289
 Keller, Nancy P., 3564
 Keller, N. P., 479
 Kelley, Ingrid, 800
 Kellogg, Christina A., 718
 Kelly, Robert M., 2614
 Kelly, W. J., 3969
 Kemp, P. F., 2594
 Kenealy, William R., 748, 1876
 Kenerley, C. M., 974
 Kennedy, James T., 706
 Kerem, Zohar, 4115
 Kerkhof, L., 1303
 Kerrigan, Richard W., 3044
 Kerssebaum, Rainer, 599
 Kessel, M., 1231
 Kessler, Katrina, 1675
 Khachatourians, George G., 4283
 Khan, S. I., 652
 Khanna, P., 2558
 Khasin, Alexander, 1725
 Kiehne, Kristine L., 1131
 Kiene, Ronald P., 2723
 Kiewiet, Renée, 358
 Kikuchi, Hideki, 4338
 Kilian, Stephanus G., 1487
 Kim, Jin-Cheol, 3798
 King, A. D., 1054
 King, Gary M., 2891
 King, G. M., 120, 485
 King, J. M. Henry, 1931
 Kinkel, Linda L., 3447
 Kinkle, B. K., 1762
 Kinscherf, Thomas G., 458
 Kirchman, David L., 373, 3280
 Kirk, L. L., 3505
 Kirk, T. Kent, 1792
 Kishimoto, Noriaki, 1176
 Kitamura, Keiko, 4044
 Klaenhammer, Todd R., 197, 208, 365, 2034, 2449, 2730
 Klaenhammer, T. R., 3906
 Klapatch, Taryn, 1688
 Klapwijk, P., 1289
 Klaver, Frank A. M., 1120
 Klein, C., 296
 Klier, André, 3922, 3928
 Klieve, Athol V., 2299
 Klostermann, Petra, 1668
 Knackmuss, Hans-Joachim, 1898
 Knapp, Roy M., 3686
 Knight, Ivor T., 47
 Knudtson, Linda M., 936
 Ko, W. H., 2323
 Kobayashi, Makio, 867
 Koch, Walter H., 556, 2765
 Kochikyan, A., 3878
 Kodama, Hisashi, 3750
 Kodama, Tooru, 285
 Kogure, K., 3934
 Koh, Sung-Cheol, 960
 Kohan, Michael J., 3585
 Kohler, Hans-Peter E., 860
 Kohler-Staub, Doris, 860
 Koide, Michio, 1943
 Koide, Roger T., 2750
 Koike, Masami, 3757
 Kojima, Shuichi, 4338
 Kok, J., 1041
 Kok, Jan, 358, 2049
 Kok, Rixt, 528
 Komagata, Kazuo, 3669
 Komatsubara, Saburo, 2857, 3225
 Kondo, Ryuichiro, 438
 Konings, Wil N., 1430, 3577
 Konings, W. N., 1041
 Konle, Ralph, 3110
 Kopecka, H., 1213
 Korhola, Matti, 2622
 Korhonen, Timo K., 4143
 Korpela, Timo, 927
 Koskinen, W. C., 1762
 Kotagiri, Shailaja, 2717
 Kothary, Mahendra H., 3495
 Kotob, S. I., 3130
 Kotsuka, Takashi, 2737
 Kozaki, Michio, 3669
 Kraak, Marjan N., 2678
 Kramer, Jonathan G., 2430
 Krämer, Reinhard, 316
 Kratzke, Marian G., 677
 Kreikemeier, Kelly K., 3171
 Kreps, Sabine, 334
 Krimi, Zoulikha, 1310
 Krishnan, Hari B., 150
 Kristjansson, Jakob K., 3666, 1963
 Kristufek, Doris, 1347
 Krueger, Susan, 4056
 Krumme, Mary Lou, 2746
 Kubicek, Christian P., 1347
 Kubota, Hiromi, 1336
 Kuchta, John M., 4096
 Kudla, Bernard, 1361
 Kühn, Michael, 3840
 Kuipers, Oscar P., 213
 Kuriki, Takashi, 953
 Kuroda, Shinji, 255
 Kusano, Nobuchika, 1943
 Kushner, Donn J., 2404
 Kwong, Simon C. W., 604
 Laakso, Tuula, 4143
 Laanbroek, Hendrikus J., 2099
 Labatiuk, C. W., 3674
 Lacey, J., 2648
 Ladire, Monique, 2876
 Laishley, Edward J., 491
 Lajoie, C. A., 1735
 Lalonde, M., 4211
 Landry, Michael R., 905
 Landry, Warren L., 541
 Lane, John, 144
 Lang, A. Lee, 786
 Langin, Thierry, 1767
 Langlade, Vincent, 1242
 Langley, M. N., 1383
 Langlois, Bruce E., 1467
 Lao, Guifang, 3032
 La Placa, Michelangelo, 3938
 LaRoche, J., 2594
 Larsen, Jens Laurits, 3863
 Larsson, Lennart, 4354
 Lassen, Carsten, 1367
 Lavoie, Marc C., 523
 Law, Sara K., 815
 Lawrence, J. R., 2388
 Lawrence, L. M., 3117
 Learmonth, R. P., 1065
 le Bars, J., 2864
 le Bars, P., 2864
 Lebbadi, Mariam, 1480
 Lebeault, Jean-Michel, 1717
 LeChevallier, Mark W., 1526
 Lecours, N., 2578
 Ledeboer, Aat M., 3577
 Lee, Barry T. O., 2531
 Lee, Chiayin, 1467
 Lee, Dong-Hyun, 3798
 Lee, H. A., 1383
 Lee, Kye Joon, 822
 Lee, S., 2594
 Lee, Sang Hee, 822
 Lee, Yin-Won, 3798
 Lee, Yong-Eok, 763, 3134
 Leenhouts, Kees J., 2049
 Leenhouts, K. J., 1041
 Leff, Laura G., 417
 Legard, D. E., 4180
 Legge, Raymond L., 1887
 Legrain, C., 3878
 Le Guyader, F., 3963
 Leish, Zdenka, 892
 Leisinger, Thomas, 3790
 Leluan, Georges, 496
 Lemanceau, Philippe, 74
 Lemattre, Monique, 851

- Lemieux, R., 2698
 Lemmens-den Toom, Nicole A., 2589
 Lemmer, Hilde, 1520
 Lens, Piet N. L., 3803
 León-Barrios, Milagros, 636
 Le Page, Richard W. F., 3954
 Lepistö, Satu, 1742
 Leppänen, Veli-Matti, 4010
 Le Roy, Didier, 942
 Lesmana, M., 2740
 Leštan, Domen, 4253
 Lettinga, Gatzke, 1003
 Levanon, Dan, 4342
 Lévesque, Benoît, 1228
 Lévesque, R. C., 4211
 Levesque, Roger C., 523
 Lewis, J. G., 1065
 Lewis, Thomas A., 1635
 Leyer, Gregory J., 1842
 Li, Dan, 4295
 Li, Xin-Liang, 3212
 Liao, James C., 4261
 Libs, John L., 1131
 Liebert, Cynthia, 807
 Lighthart, Bruce, 594
 Lim, E. L., 1647
 Lindow, Steven E., 410, 1586, 1593, 3447
 Ling, John R., 3360
 Ling, William, 3157
 Linz, John E., 1642, 2998, 3273
 Lion, Leonard W., 3306
 Little, Arlene M., 3763
 Liu, Jian-Wei, 3470
 Liu, Shi, 1325
 Liu, Wei, 648
 Liu, Weiguo, 3889
 Ljungdahl, Lars G., 3212
 Llovera, Santiago, 3516
 Lobb, Craig J., 2830
 Lohmeyer, Michael, 2029
 Londry, Kathleen L., 2229
 Longo, Elisa, 322
 Loper, J. E., 2112
 Loper, Joyce E., 4189
 López, María M., 309
 Lopez, M. M., 1805
 Lopez-de-Victoria, GERALYNE, 2951
 López-Pila, J. M., 1213
 Lorenz, Michael G., 1662, 3438
 Lortal, S., 2369
 Lovell, Charles R., 2951
 Lovley, Derek R., 734, 2727, 3572
 Low, J. C., 3126
 Lowe, D. A., 3321
 Lowe, Sue E., 763
 Lowe, Susan E., 3134
 Lu, Kuang-Lieh, 981
 Luchansky, John B., 3141, 4367
 Ludwig, Wolfgang, 1444, 2397
 Lue-Hing, Cecil, 3183
 Luengo, José M., 1149
 Luisetti, J., 243
 Lundie, Leon L., Jr., 7
 Lupattelli, P., 3695
 Lute, James R., 1972
 Lüthy, J., 2161
 Luukkainen, R., 2204
 Lyklema, Johannes, 3255
 Lynch, James M., 3899
 Lyon, Wanda J., 83
 Lytle, C. David, 4374
 Ma, Margery, 585
 Macario, Alberto J. L., 2538
 MacGillivray, A. Ronald, 1613
 Machinek, Reinhard, 1898
 MacIver, Bryce, 1168
 Mackie, Roderick I., 1607
 MacLeod, D. L., 1981
 Maczulak, Anne E., 657
 Madarro, A., 1376
 Madden, L. V., 4171
 Madsen, Eugene L., 687
 Magariños, B., 2969
 Mai, U., 1231
 Maier, Robert S., 4266
 Malchesky, Paul S., 1187
 Maloney, S. E., 2007
 Mandelbaum, Raphi T., 1695
 Mann, Nicholas H., 3736
 Manz, Werner, 2293
 Maqueda, Mercedes, 1480
 Marasas, W. F. O., 2673
 Marasco, Rosangela, 519
 Marechal, J., 1213
 Margolin, Aaron B., 3145
 Marri, Laura, 939
 Marshall, K. C., 843, 1035
 Martikainen, F. J., 398
 Martin, Ravonna, 881
 Martin, S. A., 644, 4274
 Martin, Scott E., 2082
 Martinez, Josefina, 3701
 Martinez-Blanco, Honorina, 1149
 Martínez-Bueno, Manuel, 1480
 Martins, M. T., 2271
 Maruyama, A., 712
 Maruyama, Tadashi, 610
 Marvin-Sikkema, Femke D., 2678
 Masaphy, Segula, 4342
 Mason, J. Walter, 1012
 Massa, Eddy M., 2760
 Masson, L., 114
 Masuda, Makoto, 2857, 3225
 Mathis, James N., 663
 Mathrani, Indra M., 1963
 Matsui, Yukio, 3334
 Matsumoto, Takashi, 1549, 3750
 Matsunaga, Tadashi, 3757
 Matsuyama, Yoshikazu, 2486
 Maule, A., 2007
 Mavinkurve, S., 1691
 May, Harold D., 3027
 Mayer, Cynthia, 3618
 Mayo, Baltasar, 2049
 Mbithi, John N., 3463
 McAllister, Tim A., 2132
 McArthur, J. Vaun, 417
 McCallum, Kirk, 1294
 McCarty, Perry L., 628, 1602
 McCarty, P. L., 2277
 McConnell, Michelle A., 3871
 McCormick, Susan P., 2359
 McFeters, Gordon A., 1410
 McInerney, Michael J., 3686
 McKay, Ian A., 3385
 McRoberts, W. Colin, 706
 McSweeney, Christopher S., 1607
 Mehnert, D. U., 140
 Meijer, E. M., 4330
 Meisels, Monica, 1228
 Menge, John A., 580
 Menn, Fu-Min, 1938
 Mercenier, Annick, 777
 Mercier, Josée, 523
 Mergaert, J., 3233
 Mergeay, Max, 334
 Mermelstein, Lee D., 1077
 Metcalf, Theodore G., 631
 Metge, David W., 2304
 Mett, I., 3878
 Miah, M. A., 536
 Miceli, G. A., 3519
 Miceli, Gerri A., 541
 Michaelsen, Terje E., 2938
 Michel, Marc F., 2589
 Middelboe, Mathias, 3916
 Mikami, Bunzo, 623
 Mikkelsen, Helene V., 1848
 Miller, Karen J., 2734
 Miller, Laurence G., 2457
 Miller, Raina M., 4266
 Miller, Terry L., 657, 3551
 Miller, Veronica, 669
 Milley, Douglas G., 4223
 Mills, David A., 2927
 Minak-Bernero, Vera, 1972
 Minard, R. D., 701
 Minas, Wolfgang, 2807
 Mincione, E., 3695
 Mingelgrin, U., 3123
 Minoura, Katsuhiko, 620
 Misbah, Meriam, 607
 Misono, Haruo, 2963
 Miura, Kin-Ichiro, 4338
 Miyachi, Nobuya, 1504
 Miyamoto, Katsushiro, 620
 Mizunashi, Wataru, 227
 Moar, William J., 1332
 Moineau, Sylvain, 197, 208, 2034
 Molin, G., 15
 Molin, Søren, 3713
 Molina, J. A. E., 1904
 Momose, Haruo, 4338
 Mondello, Frank J., 3858
 Monger, Bruce C., 905
 Monna, Lisa, 285
 Montgomery, Michael T., 373
 Montpetit, Claude, 4335
 Montville, Thomas J., 2552, 3003
 Moore, Barbara E., 1437
 Moore, L. W., 2112
 Moore, Melissa A., 144
 Moore, Norman J., 3145
 Moormann, Michael, 1573
 Morales, P., 1376
 Moran, Mary Ann, 915
 Morgan, Alan G., 2531
 Morgan, Hugh W., 2984
 Morgan, J. Alun W., 3327
 Morgan, J. A. W., 874
 Morgan, M. R. A., 1383
 Morin, Nancy, 3070
 Moriwaki, Masafumi, 620
 Morona, Renato, 3050
 Morris, J. Glenn, Jr., 541
 Morrison, W. H., III, 4274
 Mottice, Susan, 344
 Muir, A. D., 2132
 Mukouyama, Masaharu, 1555
 Mulders, John W. M., 213
 Muñoz, Gastón A., 4317
 Murakami, Katsujii, 347
 Murakami, T., 3321
 Muramatsu, Ayako, 3744
 Murata, Nobuo, 1206
 Murayama, Chisei, 3757
 Murga, Ricardo, 327
 Murooka, Haruyoshi, 97
 Murooka, Yoshikatsu, 347
 Muro-Pastor, M. I., 3161
 Musmanno, Rosa Anna, 4037
 Muzzer, Gerard, 695
 Myers, Eric R., 2082
 Nachamkin, Irving, 1269
 Naclerio, Gino, 4313
 Nagai, Masashi, 623
 Nagai, Shiro, 867
 Nagarajan, A., 2251
 Nagarajan, Vasantha, 3894
 Nagasaki, Susumu, 2963
 Nagata, Shinji, 2963
 Nagata, Tadahiro, 2121
 Naharro, Germán, 2411
 Naidu, P. S., 3946
 Nakahara, Koichi, 968
 Nakahara, Tadaatsu, 3150
 Nakai, Ryuichiro, 2311
 Nakajima, Hiromitsu, 2486
 Nakajima, Mutsuyasu, 97
 Nakamura, Satoshi, 2311
 Nakamura, Shigeoki, 3757
 Nakamura, Takeshi, 2107
 Nakamura, Tetsuji, 227
 Nakamura, Toyohiko, 729
 Nakase, Takashi, 4338
 Nakashima, Kazuo, 1206
 Nakasono, Satoshi, 3757
 Nakatsu, Cindy H., 3625
 Namikoshi, M., 2204
 Nanmori, Takashi, 623
 Narayan, A. D., 3505
 Nardi, Michèle, 330
 Nash, J. H. E., 27
 Natarajan, K. A., 4051
 Navarro, Rosangela B., 4161
 Navratil, Jeannine S., 4096
 Nealson, K. H., 2684
 Nedoma, Jiří, 3091
 Nedwell, D. B., 3989
 Neeser, Jean-Richard, 4121
 Negoro, Seiji, 3978
 Neijssel, Oense M., 2474
 Neill, Frederick H., 631
 Nes, Ingolf F., 3577
 Neve, Horst, 3378
 Newman, M.-A., 3996
 Nexø, Ebba, 599
 Nickerson, Kenneth W., 2666
 Nicole, M., 2578
 Nicoli, Jacques, 2876
 Niel, Philippe, 496
 Nielsen, Jens, 3206
 Nielsen, Lars Peter, 2093, 3287
 Nielsen, Peter, 1963
 Niemelä, S. I., 2190, 2204

- Niemi, R. M., 2190
 Nierzwicki-Bauer, Sandra A., 3219
 Niimura, Youichi, 3669
 Niitsu, Masaru, 2720
 Nikolov, Zivko L., 1155
 Nishimura, Syoyo, 3197
 Nishino, Shirley F., 2520
 Nissen-Meyer, Jon, 3577
 Nobaek, S., 15
 Noguchi, T., 3934
 Noma, Masana, 1549, 3750
 Norde, Willem, 3255
 Nordhaus, Ralph, 1444
 Nordström, Katrina M., 1975
 Normand, Philippe, 1361, 4289
 Nørnung, Birgit, 2817
 Nörtemann, Bernd, 1898
 Norton, Pamela M., 3954
 Numata, K., 3321
 Núñez, S., 2969
 Nystrom, G. J., 156
 O'Brien, Mark R., 2347
 O'Brien, Parnell, 3183
 O'Connell, Kevin P., 2184
 Oda, Hiroshi, 97
 Oda, M., 712
 Odenyo, Agnes A., 1607
 Ogura, Kyoichi, 968
 O'Herrin, Sean M., 748, 1876
 Ohmura, Naoya, 4044
 Ohta, Kazuyoshi, 729
 Ohtake, Hisao, 3744
 Ohwada, K., 3934
 Ojanen, Tuula, 4143
 Okada, Hirotsuke, 3978
 Okada, Shigetaka, 953
 Okuda, Mitsuyoshi, 1336
 Olafsen, Jan A., 1848
 Oliver, James D., 2653
 Ollikka, Pauli, 4010
 Olsen, John Elmerdahl, 3863
 Olsen, Susan K., 2286
 Olson, B. H., 2271
 Olson, Edwin S., 2837
 Olson, Gregory J., 2375, 4056
 Olson, M. E., 67
 Omori, Toshio, 285, 1504
 O'Neill, Kathleen R., 3474
 Ono, Hiroyuki, 968
 Ooijkaas, Lydia P., 3502
 Oshima, Takashi, 968
 Orcival, Jean, 1767
 Orden, J. A., 1515
 Oremland, Ronald S., 2457
 Orth, Ann B., 2909, 4017
 Osawa, R., 1251
 Osborn, A. M., 4024
 Osgood, Doreen P., 3985
 Oshima, Tairō, 2720, 2737
 O'Sullivan, Daniel J., 2449, 2730
 Ottengraf, Simon P. P., 3803
 Ottengraf, S. P. P., 573
 Ouadah, Djouida, 1310
 Ouellette, G. B., 1752, 2578
 Ousley, Margaret A., 3899
 Oyofu, Buhari A., 4090
 Ozanne, Gérard, 4335
 Paavilainen, Sari, 927
 Packdibamrung, Kanoktip, 2963
 Paerl, Hans W., 1367, 1495
 Page, William J., 4236
 Paice, M. G., 260
 Paknikar, S. K., 1691
 Palmer, Carol J., 353, 786, 3488, 3618
 Palmer, David A., 1619
 Palomares, Antonio Jose, 2511
 Palsson, Bernhard O., 2465
 Pandian, S., 2690, 2698, 2914
 Pandian, Sithian, 197, 208, 2034
 Pane, L., 1960
 Papoutsakis, Eleftherios T., 1077
 Park, C. E., 2210
 Parker, Angela F., 3050
 Parrington, Lorna J., 2784
 Paszko-Kolva, C., 1231
 Paszko-Kolva, Christine, 3618
 Patel, G. B., 27
 Patel, Girishchandra B., 912, 1092, 1099
 Paul, J. H., 451
 Paul, John H., 718
 Paulmurugan, R., 2558
 Payment, Pierre, 2418
 Payne, G. A., 156
 Payne, Gary A., 3273
 Payne, William L., 556
 Pazos, F., 2969
 Pazzaglia, G., 2740
 Pearson, A. D., 987
 Pecquet, Sophie, 942
 Pedersen, Jens Christian, 1560
 Peduzzi, Peter, 4074
 Peduzzi, Raffaele, 442
 Peek, Keith, 1168
 Peferoen, M., 1821, 1828
 Pemberton, J. M., 3011
 Peñalver, Ramón, 309
 Pepi, Milva, 2479
 Pepper, Ian L., 1318, 1473, 4266
 Pepper, I. L., 3513
 Perdihi, Anton, 4253
 Perdon, Leo, 4216
 Pérez, Pilar, 2607, 4129
 Pérez-González, J. A., 1376
 Pérez-González, José Antonio, 2801
 Perry, Jerome J., 1025
 Peschek, G. A., 3239
 Pestka, James J., 1264
 Peteranderl, R., 3498
 Peterkin, Pearl I., 2784
 Peters, P. J. H., 4330
 Petersen, Nikolai, 2397
 Petit, Annik, 1310
 Petitdemange, H., 3154
 Petter, Jean G., 2884
 Peyton, Brent M., 327
 Pfeifer, Donald, 1425
 Phelps, Patricia, 2771
 Phelps, Tommy J., 3545
 Phillippe, Lucille M., 2795
 Phillips, Donald A., 636
 Phillips, Elizabeth J. P., 2727, 3572
 Piani, Marcos, 304
 Piard, J.-C., 1416
 Picard, Bertrand, 496
 Picard, Christine, 4289
 Picard, G., 2914
 Picardal, Flynn W., 3763
 Pichard, S. L., 451
 Pickup, Roger W., 3327
 Pickup, R. W., 874
 Picque, Daniel, 1893
 Pierard, A., 3878
 Pillai, Suresh D., 1473
 Piñaga, F., 1376
 Plantz, Bradley A., 2666
 Plessner, Ora, 1688
 Plugge, Caroline M., 1114
 Podgornik, Helena, 4253
 Podila, Gopi K., 2717
 Pometto, Anthony L., III, 203, 1155
 Poncet, Sandrine, 3922, 3928
 Pons, Jean-Louis, 496
 Poppelier, Miriam J. J. G., 2713
 Poppelier, M. J. J. G., 1289
 Porter, Alan G., 3470
 Porter, Jonathan, 3327
 Poth, Mark, 3525
 Pothuluri, Jairaj V., 1977
 Potter, Sandra W., 1786
 Poulsen, Lars K., 682, 1354
 Préfontaine, G., 114
 Prescott, Mark, 1168
 Pretorius, Isak S., 1253
 Prevot, J., 1213
 Preyer, Janet M., 2653
 Price, W. Allen, II, 3027
 Priest, Fergus G., 3470
 Prins, Janke, 2777
 Prins, Rudolf A., 2150, 2678
 Prior, Bernard A., 1487
 Provencio, Kerri R., 3021
 Prufert-Bebout, Lee, 1367
 Pruvost, O., 243
 Pruvost, O. P., 1143
 Pruzzo, C., 1960
 Pu, Xin-an, 2572
 Pueppke, Steven G., 150
 Pyle, Barry H., 1410
 Quang, Pham, 881
 Quatrini, P., 3695
 Querol, Amparo, 2801
 Raateland, A., 2190
 Rabus, Ralf, 1444
 Rachel, Reinhard, 2918
 Rafii, Fatemeh, 1731
 Rahn, K., 1981
 Raibaud, Pierre, 2876
 Rajola, Timo, 4010
 Ramakrishnan, Sundaram, 4230
 Ramaley, Robert, 3894
 Ramanand, K., 2251, 3266
 Ramare, Françoise, 2876
 Ramón, Daniel, 2801
 Ramos, Juan L., 3713
 Ramsay, Bruce A., 1242
 Ramsay, Danièle, 1228
 Ramsay, Juliana A., 1242
 Ramsing, Niels Birger, 3840
 Randers, Lisa, 604
 Randles, Steven J., 1072
 Rankin, Clifford C., 2758, 3534
 Rao, Govind, 604
 Rao, G. Ramananda, 4051
 Rao, K. C., 3183
 Rao, P. S. C., 1813
 Rapoport, Georges, 3922, 3928
 Rasmussen, Mark A., 2077, 3056
 Rayman, M. K., 2210
 Reasoner, D. J., 4347
 Reasoner, Donald J., 1532
 Recorbet, Ghislaine, 1361, 4289
 Reddy, C. A., 756, 2904, 3946
 Rees, Elizabeth, 2678
 Reglero, Angel, 1149
 Rehm, Hans-Jürgen, 2029
 Reid, I. D., 260
 Reineke, Walter, 2706
 Reinhold-Hurek, Barbara, 3816
 Reiser, Jakob, 2897
 Remberg, Gerd, 1898
 Renault, Pierre, 177
 Revsbech, Niels Peter, 2093, 3287
 Reyes, J. C., 3161
 Rheeder, J. P., 2673
 Rhodes, G., 874
 Ricca, Ezio, 519, 4313
 Rice, Eugene W., 1668
 Rice, E. W., 4347
 Rice, J. S., 3602
 Richardson, Alan E., 1798
 Richardson, Nigel P., 3120
 Ridgway, H. F., 3850
 Rigling, Daniel, 3634
 Rigney, M. M., 1236
 Rigsby, L. L., 644
 Rijnaarts, Huub H. M., 3255, 3973
 Rinas, Ursula, 561
 Rinehart, K. L., 2204
 Ringelberg, David B., 3339
 Rintala, Jukka, 1742
 Rio, B., 2578
 Rios-Sánchez, R. M., 1416
 Rioux, D., 2578
 Rippey, S. R., 3519
 Risaard-Petersen, Nils, 2093
 Ritchie, D. A., 4024
 Rittmann, Bruce E., 3430
 Rivera, I. G., 2271
 Rivera, Maria D., 1162
 Roach, P. D., 67
 Roberts, R. D., 2388
 Robert, Catherine, 1361
 Roberts, Deborah J., 2171
 Roberts, Marilyn C., 614
 Robertson, Betsy R., 881, 2150
 Robertson, Donald C., 3314
 Robertson, L. J., 2638, 4361
 Robson, Robert L., 1883
 Roden, Eric E., 734, 2727
 Rodrigue, Natalie, 2022
 Rodríguez Aparicio, Leandro B., 2411
 Rodtong, Sureelak, 3480, 3871
 Rolfe, Barry G., 1058, 1798
 Rollins, D., 987
 Rollins, David M., 4090
 Romano, Patrizia, 1838
 Rondonowski, Gerd, 3438
 Rondinini, G., 3411
 Ronson, Clive W., 2014

- Rosario, Igrid, 2380
 Posario, Rose Marie T., 4354
 Rosas, I., 2648
 Rosazza, John P. N., 281, 725, 2244, 3889
 Rose, Joan B., 718
 Roslev, Peter, 2891
 Ross, C. M., 922
 Ross, Karen F., 2014
 Rossolini, Gian Maria, 939
 Rossoni, Carmen, 3938
 Rothenburger, Stephen, 2139
 Rothschild, Nathan, 1919
 Rouault, A., 2369
 Rouch, Duncan A., 2531
 Rouf, M. A., 1236
 Routson, Licia B., 4374
 Rowbury, Robin J., 3120
 Roy, B., 2914
 Roy, Brian P., 1855
 Roybal, Yvette R., 3534
 Royse, Daniel J., 4017
 Rubino, Joseph R., 1579
 Ruiz-Barba, J. L., 1416
 Ruiz-Berraquero, Francisco, 2511
 Rumjanek, Norma G., 4371
 Runolfsson, Sveinn, 3666
 Russ, William, 304
 Russell, James B., 1747, 2844
 Russell, J. B., 3250
 Russell, J. M., 922
 Rutgers, Michiel, 3373
 Rüttimann-Johnson, Carmen, 1792
 Rysgaard, Søren, 2093
- Sacco, Margherita, 519, 4313
 Sack, R. B., 536
 Sadowsky, Michael J., 1656, 1702, 1762
 Saeger, Jennifer L., 2214
 Sagripanti, Jose-Luis, 4374
 Sahlström, Stefan, 3076
 Sahm, Hermann, 2329
 Saiki, Hiroshi, 4044
 Saint-Onge, Alain, 114
 Saito, Atsushi, 1943
 Sakai, Kokki, 438
 Sakano, Kouichi, 1555
 Sakanyan, V., 3878
 Sakuradani, Eiji, 4300
 Sakurai, Naoki, 2857, 3225
 Salama, Maysoon S., 3941
 Salamanca, C. P., 129
 Salas, Loreto, 1792
 Salch, Yangkyo P., 585
 Salem, S., 3130
 Sambri, Vittorio, 3938
 Sánchez, Manuel, 2087
 Sandine, William E., 607, 3941
 Sangermano, Louis R., 353, 786, 3488, 3618
 Sanseverino, John, 1931
 Santamaria, Carlos, 2087
 Santamaria, Ramón, 2607, 4129
 Santos, Y., 2969
 Sarais, Ileana, 4166
 Saravanadevi, S., 2558
 Sathyanarayana, D. N., 4051
 Satoh, Eiichi, 3669
- Satta, Giuseppe, 939
 Sattar, Syed A., 1579, 3463
 Saulnier, Patrick, 942
 Savchenko, A., 3878
 Sawant, Anil D., 183
 Sawyer, Bernard, 3183
 Sawyer, T. E., 120
 Sayler, Gary S., 960, 1931, 1938, 2380
 Sayyar, Sean, 60
 Scaravaglio, Omar R., 2760
 Scarpino, Pasquale V., 3534
 Schaefer, F. W., III, 772, 3661
 Scharld, Christopher L., 1540
 Schaule, G., 3850
 Scheffers, W. Alexander, 3102
 Schemen, Ruud M. W., 3502
 Schippers, Bob, 74
 Schirmer, Andreas, 1220
 Schlegel, Hans G., 1220
 Schleifer, Karl-Heinz, 1520, 2397
 Schleifer, K.-H., 2293
 Schlochtermeier, André, 1573
 Schmidt, Dorothea, 1540
 Schmidt, E. L., 1762
 Schmidt, Jens E., 2538, 2546
 Schmidt, Stefan, 3931
 Schneider, Maria, 1702
 Schnürer, Johan, 552
 Schraa, Gosse, 2991
 Schreiner, R. Paul, 2750
 Schrempf, Hildgund, 1573
 Schröder, Eduardo C., 4161
 Schroth, Milton N., 2056, 2064, 2071
 Schut, Frits, 881, 2150
 Schwarzenbach, René P., 4350
 Scow, Kate M., 1911
 Seager, Gwen M., 3021
 Searles, D. B., 1194
 Seegers, Jos F. M. L., 358
 Sekla, Laila H., 4223
 Selifonova, Olga, 3083
 Semprini, L., 2277
 Sendra, J. M., 1376
 Sendra, José, 2801
 Sermanni, G. Giovannozzi, 3695
 Serrano-Carreón, L., 2945
 Servin, Alain L., 4121
 Sethuraman, A., 4274
 Setlow, Barbara, 640, 3418
 Setlow, Peter, 640, 3418
 Shaffer, Brenda T., 594
 Shahamat, M., 987, 1231
 Shahbal, Samaha, 177
 Shantha Kumara, H. M. C., 2352
 Shantharam, Sivaramiah, 2717
 Sharma, H. D., 134
 Sharma, Parmod K., 3686
 Sharma, Reshmi V., 1864
 Sharpe, Anthony N., 2784
 Shaw, Nancy E., 1526
 Shen, Hai, 3771
 Shen, Yin, 4101
 Shepherd, Megan E., 4096
 Shiari, Michael P., 1613
 Shibata, Yukinaga, 2107
 Shida, Y., 3934
- Shimizu, Sakayu, 4300
 Shimizu, Yasumitsu, 623
 Shimkets, Lawrence J., 417
 Shinke, Ryu, 623
 Shirai, Shinji, 2720
 Shochat, Eyal, 1403
 Shoham, Yuval, 1725
 Shuttleworth, Kay L., 1274
 Siddiqui, P. J. A., 3239
 Siegel, Malcolm R., 1540
 Siezen, Roland J., 213
 Sikkema, Jan, 567
 Sikora, Lawrence J., 677
 Simard, Pierre, 1228
 Simard, R. E., 2698
 Šimek, Karel, 3091
 Simidu, U., 3934
 Simon, L., 4211
 Simonet, Pascal, 4289
 Simon-Pujol, Maria D., 3516
 Simon-Pujol, Maria Dolores, 2437
 Sinclair, James L., 467
 Sing, Wesley D., 365
 Singleton, Fred L., 2430
 Siragusa, Gregory R., 2326
 Siverio, F., 1805
 Sivonen, K., 2204
 Skjerve, Eystein, 2938
 Skory, Christopher D., 1642
 Skovgaard, N., 2817
 Sledjeski, Darren D., 1565
 Sleytr, U. B., 2369
 Smal, Arjan J. A. C., 2777
 Smets, Barth F., 3420
 Smid, Eddy J., 3648
 Smidt, Marten P., 837
 Smit, Eric, 2257
 Smit, Marieke, 1951
 Smith, A. R. W., 2007
 Smith, Gary M., 473
 Smith, H. V., 2638, 4361
 Smith, Linda Tombras, 473
 Smith, Lori, 344
 Smith, Marla E., 3763
 Smith, Michael, 1425
 Smith, M. L., 134
 Smith, Richard L., 2304
 Sobsey, Mark D., 3488
 Sofos, John N., 617
 Soltes-Rak, Erika, 2404
 Søndergaard, Morten, 3916
 Sonke, T., 4330
 Sonne-Hansen, Jacob, 1963
 Sonohara, Hiroshi, 1336
 Sørensen, Jan, 431
 Sørhaug, Terje, 3076
 Southam, G., 1283
 Southgate, Valerie J., 1253
 Sowers, Kevin R., 3832
 Spain, Jim C., 2239, 2520
 Speitel, Gerald E., Jr., 2771
 Sperry, Jay F., 3985
 Spring, Stefan, 2397
 Springael, Dirk, 334
 Springthorpe, V. Susan, 1579, 3463
 Sprott, G. D., 27
 Sprott, G. Dennis, 912, 1092, 1099
 Srikanth, Sujata, 3245
 Stafford, A. E., 1054
- Stahl, David A., 682, 1354, 1607, 3430
 Stams, Alfons J. M., 1003, 1114, 2991
 States, Stanley J., 4096
 Statton, Kate M., 3120
 Stecchini, Mara Lucia, 4166
 Stefanelli, Claudio, 3938
 Stelma, Gerard N., Jr., 3534
 Stenström, Thor-Axel, 2293
 Stern, Norman J., 1269
 Stetter, Karl O., 2918
 Stetzenbach, Linda D., 219
 Stevenson, R. M. W., 2178
 Stewart, M. H., 2271
 Stewart, Philip S., 327
 Stewien, K. E., 140
 Steyn, Andries J. C., 1253
 St. Laurent, M., 2698
 Stockwell, V. O., 2112
 Stolz, Ernst, 2589
 Straube, W. L., 3406
 Straus, Neil, 945
 Strike, P., 4024
 Strobel, H. J., 40, 2631
 Strom, P. F., 1735
 Stroup, Adam N., 3138
 Stupperich, Erhard, 599, 3110
 Sturman, Paul J., 3455
 Suárez, G., 1515
 Subekti, D., 2740
 Suberkropp, K., 3367
 Suflita, Joseph M., 1325, 2251
 Sugano, Yasushi, 1549, 3750
 Sugio, Tsuyoshi, 1176
 Sugiura, Yoshitsugu, 3334
 Sugiyama, Hiroshi, 2339, 3825
 Sultana, Khalida, 304
 Sunairi, Michio, 97
 Sundin, G. W., 1018
 Suominen, Ilari, 4010
 Sur, G. C., 536
 Sutherland, John B., 2145
 Suzuki, Masayuki, 4338
 Suzuki, Takaya, 1504
 Suzzi, Giovanna, 1838
 Sverrisson, Halldor, 3666
 Swain, Rosalind A., 2299
 Swanson-Kobler, Jane D., 2666
 Swings, J., 3233
 Szabo, E. A., 3011
 Szwedzyk, Ulrich, 2293
- Tabashnik, Bruce E., 1332
 Tabernero, Carlos, 4129
 Tada, Yoko, 1187
 Tagg, John R., 1969, 2014
 Taguchi, Seiichi, 4338
 Takada, Tohru, 2737
 Takahashi, Kanjo, 3757
 Takai, Masataka, 1176
 Takata, Hiroki, 953
 Takesada, Yoshiaki, 953
 Takigawa, Hirofumi, 1336
 Takimura, Osamu, 924
 Takizawa, M., 3406
 Takizawa, Masayuki, 997
 Talbot, Nicholas J., 585
 Tamakoshi, Masatada, 2737
 Tamplin, Mark L., 1012
 Tamplin, M. L., 2425
 Tan, Paris S. T., 1430

- Tanabe, Kentaro, 3197
 Tanaka, Shigeyoshi, 1336
 Tanaka, Takaharu, 968
 Tanaka, Tohru, 1504
 Tanaka, Toshitsugu, 3334
 Tani, Yoshiki, 1555
 Tannock, Gerald W., 3480, 3871
 Tano, Tatsuo, 1176
 Taraban, Ronald H., 2332
 Tatar, Gregory M., 2126
 Tate, Cathy M., 3592
 Taylor, Barrie F., 93, 3784, 4083
 Taylor, Barry L., 3509
 Taylor, Frank, 1072
 Taylor, H. W., 134
 Taylor, Janet L., 3681
 Taylor, Kenneth B., 231, 1049
 Taylor, Maria S., 3585
 Tebbe, Christoph C., 2657
 Telang, Anita J., 4101
 Terabe, Mahito, 4338
 Terada, Ichiro, 1549
 Terespolsky, Yehudith, 547
 Thamdrup, Bo, 101
 Thayer, Donald W., 1030
 Theunissen, Hans J. H., 2589
 Thode-Andersen, Soren, 3871
 Thomas, Connor J., 3050
 Thomas, Linda V., 1991
 Thomas, M. D., 236
 Thompson, Dexter T., 2830
 Thurston, B., 2631
 Ticehurst, John, 3165
 Tiedje, James M., 250, 3297
 Tiehm, Andreas, 1927
 Tien, Ming, 2909, 4017
 Timmis, Kenneth N., 2746
 Tjaniadi, P., 2740
 Tobin, John M., 2851
 Toccalino, Patricia L., 2977
 Topisirovic, L., 274
 Topp, Edward, 1955, 3339
 Toranzo, A. E., 2969
 Torensma, R., 1289, 1342
 Torensma, Ruurd, 2713
 Torrez, Ruben J., 3021
 Torsvik, Terje, 915
 Torsvik, Vigdis L., 915
 Tosa, Tetsuya, 2857, 3225
 Tramper, Johannes, 1951
 Trincon, Antonio, 2918
 Triplett, Eric W., 4371
 Trovato, Maurizio, 1310
 Trudgill, Peter W., 1125
 Tsai, G.-J., 2563
 Tsai, Huei-Fung, 1540
 Tsai, Yu-Li, 353, 786, 3488, 3618
 Tsuge, Takashi, 3197
 Tsujibo, Hiroshi, 620
 Tuijn, Cees J., 3648
 Tully, Raymond E., 4136
 Tunlid, A., 3605
 Tuovinen, Olli H., 1984
 Turakainen, Hilkka, 2622
 Uchimura, Tai, 3669
 Uchytel, Thomas F., 458
 Ueda, Makoto, 1110
 Ueno, Yoshio, 3334
 Uitterlinden, Andre G., 695
 Ullah, A. H. J., 479
 Ulloa, M., 2648
 Unz, Richard F., 1274
 Upper, Christen D., 1082
 Urabe, Itaru, 3978
 Urben, Gerald W., 1876
 Urrutia, Matilde M., 4323
 Väänänen, P. K., 398
 Vagnoli, Paola, 4037
 Vahjen, Wilfried, 2657
 Valdivia, Eva, 1480
 Valdivieso-Garcia, A., 1981
 Valéro, José R., 523
 Valois, Frederica W., 3393
 Van Alfen, Neal K., 3634
 van Andel, Johan G., 3373
 Vanavichit, Apichart, 4189
 van Balken, J. A. M., 4330
 van Berkum, P., 3130
 van Berkum, Peter, 4161, 4371
 van den Heuvel, J. C., 573
 van den Heuvel, Johannes C., 2474
 van den Hoogen, Marijke P., 1951
 van den Tweel, Will J. J., 2823
 van den Wijngaard, Arjan J., 2041, 2777, 3400
 Vanden Wymelenberg, Amber, 3492
 van der Kleij, Roelof G., 3400
 van der Lelie, Daniel, 777
 van der Maarel, Marc J. E. C., 860
 van der Meer, Roelof, 1120
 van der Mei, H. C., 4305
 van der Waarde, Jaap J., 528
 van der Werf, Mariët J., 2823
 van de Veerdonk, Frans L. M., 1430
 Vandevivere, Philippe, 3280
 Van Dijk, Johan B., 1114
 van Dijken, Johannes P., 3102
 van Elsas, Jan D., 2257
 van Gemerden, Hans, 2397
 Van Houdt, S., 1821
 van Kessel, Theo A. J. M., 1430
 van Kouwen, Gisella, 837
 van Lier, Jules B., 1003
 Vannelli, Todd, 3597
 van Olphen, Marja, 2956
 Van Ommen Kloeke, Fintan, 491
 Van Rie, J., 1821, 1828
 van Rijssel, Marion, 828, 837
 van Tilburg, A.-U. B., 236
 Van Veen, J. A., 743
 Van Vuuren, Hendrik J. J., 1253
 van Zyl, Carina, 1487
 Varaldo, Pietro E., 614
 Vardund, Traute, 2938
 Varel, Vincent H., 3171
 Vargas, Alvaro A. T., 4161
 Varma, Amit, 2465
 Vaya, Jacob, 4342
 Veitch, Dallas P., 1168
 Venema, G., 1041
 Venema, Gerard, 358, 2049, 3577
 Venema, K., 1041
 Venkatesan, M., 536
 Venne, Dorine, 2257
 Verachtert, H., 2352
 Verdier, Valérie, 851
 Verhagen, Frank J. M., 2099
 Verhoef, J., 1289, 1342
 Verhoef, Jan, 2713
 Verniere, C., 243
 Verrips, C. Theo, 52
 Verstraete, Willy H., 3803
 Vescio, Paul A., 3219
 Vezinhet, Françoise, 322
 Viaplana, Elisenda, 3485
 Vicedo, Begonya, 309
 Vicuña, Rafael, 1792, 3477
 Villadsen, John, 3206
 Villanueva, Julio R., 2607
 Villaverde, Antonio, 3485
 Vinciguerra, V., 3695
 Visscher, Pieter T., 93, 3784, 4083
 Visser, Marit J. C., 2713
 Visser, M. J. C., 1289
 Vleggaar, R., 2673
 Vogels, Godfried D., 2317
 Völkl, Paul, 2918
 Voloudakis, Andreas E., 1627
 Von Tungeln, Linda S., 2145
 Voordouw, Gerrit, 4101
 Voskuil, Martin I., 1138
 Vrba, Jaroslav, 3091
 Vujcic, M., 274
 Wackernagel, Wilfried, 1662, 3438
 Wackett, Lawrence P., 1695
 Wadowsky, Robert M., 4096
 Wagner, Michael, 1520
 Wagner-Döbler, Irene, 4065
 Wakabayashi, Kenji, 2311
 Walker, Hubert L., Jr., 2332
 Walker, Nicola D., 3147
 Walker, T. R., 3989
 Wallace, R. J., 3147
 Wallis, P. M., 67
 Walsh, T. P., 1251
 Walther, Isabelle S., 2897
 Wang, Yi-Tin, 3771
 Wang, Zemin, 508
 Ward, B. B., 1303
 Ward, Bess B., 2457
 Ward, Kevin A., 892
 Ward, Lawrence J. H., 3708
 Watanabe, Hiroyuki, 3197
 Watanabe, Ichiro, 227
 Watanabe, Tatsunori, 97
 Waterbury, John B., 3393
 Waterhouse, Rosemary N., 919, 1391
 Watkins, W. D., 3519
 Watkins, William D., 541
 Watson, K., 1065
 Way, Judy S., 1473
 Webb, A., 3233
 Weber, Frans J., 3502
 Webster, John A., 945
 Weekers, Peter H. H., 2317
 Wegmüller, B., 2161
 Weimer, Paul J., 405
 Weinbauer, Markus G., 4074
 Weiner, Ronald M., 1565
 Weinhold, Albert R., 2056, 2064
 Wells, Jeremy M., 3954
 Wentz, Barry A., 144, 556
 Westlake, Donald W. S., 4101
 Weusthuis, Ruud A., 3102
 Wheatcroft, Roger, 3339
 Whipples, John M., 3899
 Whitaker, Richard, 304
 White, David C., 3339, 3545
 Whitehead, Terence R., 189
 Whitley, G., 67
 Widdel, Friedrich, 1444
 Widjoatmodjo, Myra N., 1342
 Widman, Peggy K., 3572
 Wiedmann, Martin, 304, 2743
 Wiegel, J., 3498
 Wierenga, Peter J., 4266
 Wijen, John P. H., 2317
 Williams, D. Dudley, 2404
 Williams, Jill R., 2531
 Williams, Ruth, 1683
 Willis, David K., 458
 Wilson, David B., 3032
 Wilson, John T., 467
 Wilson, Louis A., 183
 Wilson, Mark, 410
 Wilson, Peter W., 3954
 Wilson, William H., 3736
 Wimpee, B., 2684
 Wimpee, C., 2684
 Wimpenny, Julian W. T., 1991
 Wind, Richèle D., 2041
 Wingard, Christopher E., 170
 Winkowski, Karen, 2552
 Winther-Nielsen, Margrethe, 2538
 Wirsén, Carl O., 610
 Wittich, Rolf-Michael, 3931
 Witzel, Karl-Paul, 3378
 Woese, Carl R., 3816
 Wolfardt, G. M., 2388
 Wolfe, Gordon V., 2723
 Wolfe, R. L., 2271
 Wolff, Randal A., 1876
 Wolin, Meyer J., 657, 3551
 Woloshuk, Charles P., 3273
 Woloshuk, C. P., 156
 Wong, T. Y., 89
 Wood, Norris P., 3985
 Woodward, Joan C., 3572
 Wouters, A., 3233
 Wright, Anita C., 541
 Wright, F., 3126
 Wright, Michael A., 1072
 Wu, Tzong-Shoon, 2998
 Wu, Wei-Min, 389
 Wyatt, G. M., 1383
 Wyman, Michael, 669
 Wyndham, R. Campbell, 3625
 Xu, Jianping, 3044
 Xu, Jie, 231, 1049
 Yabe, Kimiko, 2486, 2493
 Yadav, J. S., 756, 2904
 Yamada, Hideaki, 1110
 Yamada, Katsufumi, 3744
 Yamagami, Hikari, 438
 Yamagishi, Akihiko, 2737
 Yamamoto, Takashi, 1131
 Yamaoka, Yukiho, 924
 Yanase, Michiyo, 953

Yang, Ching-Hong, 580
Yang, C.-M. J., 3250
Yang, Shen K., 2145
Yang, Wei, 281
Yang, Xiao-He, 1269
Yanke, Jay, 2132
Ye, Rick W., 250
Yee, Robert B., 4096
Yeh, Sheau-Farn, 981
Yoneyama, Tadakatsu, 1104

Yoshizawa, Takumi, 1264,
3798
Young, Charles C., 1972
Young, Kevin D., 2837
Young, L. Y., 1162, 3157
Yu, Fujio, 227
Yu, Jiujiang, 3564
Yu, Yong-Man, 815
Zachmann, Joseph E., 1904

Zahnley, James, 1425
Zanoni, B., 3411
Zborowski, Maciej, 1187
Zehnder, Alexander J. B.,
2991, 3255, 3973
Zehr, Jonathan P., 669
Zeikus, J. Gregory, 389, 763,
3134
Zeilinger, Susanne, 1347
Zenz, David R., 3183

Zeringue, H. J., Jr., 2264
Zeyer, Josef, 1709, 2753, 4350
Zhang, Zhi-Quan, 3212
Zhao, Tong, 2526
Zhou, Yongtai, 3825
Zirletta, G., 3695
Zironi, Roberto, 1838
Zuberer, D. A., 974
Zuurendonk, Peter F., 1430
Zylstra, G. J., 1735

SUBJECT INDEX

VOLUME 59

- Abortive phage resistance mechanisms
differentiation with antibodies, 208
- Acanthamoeba castellanii*
grazing effects on bacteria, 2317
- Acanthamoeba polyphaga*
grazing effects on bacteria, 2317
- Acetate
colonic reduction of CO₂, 3551
degradation at 70°C, 1742
M. espanolae growth, 1099
propionate degradation effects, 1003
- Acetate-utilizing granules
upflow anaerobic sludge blanket reactor, 2538
- Acetobacter pasteurianus*
insertion sequence IS1380, 1656
- Acetogenesis
C. thermoaceticum, 3062
- Acetogenic mixed culture
dichloromethane as C source, 3790
- Acetoin
apiculate wine yeasts, 1838
L. lactis bv. diacetylactis, 1893
- N-Acetylglutaminyglutamine* amide
P. aeruginosa and stress, 473
- Acid tolerance
R. leguminosarum, 1058, 1798
S. enteritidis phage type 4, 3120
S. typhimurium, 1842
- Acidulants
E. coli O157:H7 growth, 2364
- Acinetobacter calcoaceticus*
cryptic plasmids, 2807
genetic transformation, 1662
- Acinetobacter junii*
guaiacol metabolism, 3424
- Acremonium coenophialum*
nitrogen utilization, 3602
- Actinomycetes
Chesapeake Bay, 997
fungal root pathogen antagonists, 3899
p-nitrophenol degradation, 3505
- Activated sludge
oligonucleotide probing, 1520
- Activator protein-2-like transcription factor
fungal gene expression, 2335
- Acylated proteins
Borrelia spp., 3938
- Acyl-coenzyme A ligase
purification, 1149
- Adaptation
P. aeruginosa and stress, 473
P. putida and solvents, 3502
S. typhimurium, 1842
- S-Adenosylmethionine*-utilizing systems
P. chrysosporium, 1461
- Adenylates
aquifer bacteria, 2304
- Adhesion
B. cinerea conidia, 1786
coryneform bacteria, 3973
E. coli and ileal mucus, 34
human bifidobacteria and Caco-2 cells, 4121
static and dynamic conditions, 3255
T. ferrooxidans, 4051
T. ferrooxidans and pyrite, 4044
thermophilic dairy streptococci, 4305
- Adriatic Sea
virus distribution, 4074
- Adsorption
S. cerevisiae and metal ions, 2851
Adsorption rate coefficient
bacterial transport in porous media, 3455
- Aerobactin
biosynthesis by *E. cloacae*, 4189
detection in *Enterobacteriaceae*, 942
- Aerobic colony count technique
improvement, 2784
- Aerobiological monitoring
fungal spores, 219
- Aeromonas hydrophila*
extracellular lipase, 2411
thermal inactivation, 4166
- Aeromonas salmonicida*
exopolysaccharide production, 2437
survival in lake water, 874
- Aerosols
C. pneumoniae survival, 2589
wastewater aeration tanks, 3183
- af1-2*
aflatoxin biosynthesis, 156
- Aflatoxins
A. flavus gene, 156
A. parasiticus *ver-1* and *nor-1*, 1642
biosynthesis, 2486, 2493
biosynthetic pathway, 479, 479, 3564
regulation of biosynthesis, 3273
- aga4*
cloning and sequencing, 3750
- Agarase
Vibrio sp., 1549
- Agarase 0107
gene cloning and sequencing, 3750
- Agaricus bisporus*
mating type gene, 3044
- Aggregate formation
B. laevolacticus, 2474
- Agitation time
glycerol production, 2022
- Agricultural ecosystems
P. putida density, 2064
- Agrobacteria
attachment to grape cells, 2572
- Agrobacterium radiobacter*
A. tumefaciens biocontrol, 309
chromate reduction, 3516
fate in the environment, 2112
- Agrobacterium* spp.
plasmids and chromosome, 1310
- Agrobacterium tumefaciens*
biological control, 309
- Air conditioners
bacterial levels in dust, 4354
- Airborne microorganisms
air conditioner dust, 4354
fungal spores, 219
Penicillium CFU, Mexico City, 2648
- Alcaligenes eutrophus*
haloaromatic degradation, 334
heavy metal resistance, 334
water stress in soil, 1560
- Alcaligenes faecalis*
NO and N₂O production, 3525
- Alcaligenes* spp.
chlorobenzoate-3,4-dioxygenase, 3625
- Alcoholic fermentation
acetoin production, 1838
- Alginate
gene expression activation, 1181
- Alkaline xylanases
alkaliphilic *Bacillus* strain, 2311
B. polymyxa, 1376
- Alkalophiles
2-phenylethylamine production, 2720
- Alkanes
biodegradation, 2977
- Alkyl sulfides
biodegradation, 4083
- Allylic oxidation
 α -cedrene, 1336
- Allylsulfide
ammonia monooxygenase inactivation, 3718
- Alternaria alternata*
genetic variability, 3197
- Alternative electron acceptors
chlorinated aromatic degradability, 1162
- Alteromonas tetradonis*
tetrodotoxin production, 3981
- Alteromonas undina*
organophosphorus acid anhydrolase, 3138
- Amino acid requirements
deep-sea archaeal isolates, 610
- Amino acids
S. bovis effects, 1747
utilization by ruminal bacteria, 3360
- Aminoacylase
B. stearotheophilus, 3878
- δ -Aminolevulinic acid
bacterial synthesis, 347
- 5-Aminonaphthalene-2-carboxylic acid
bacterial oxidation, 1893
- Amino nitrogen
monensin effects in the rumen, 3250
- Aminopeptidases
debittering of β -casein digest, 1430
L. lactis subsp. *cremoris*, 330
marine chroococcoid cyanobacteria, 3701
P. putida, 4330
- Ammonia
bacterial production, 3250
oxidation in *N. europaea*, 3718
- Ammonia monooxygenase
inhibition in *N. europaea*, 2501
N. europaea, 3718, 3728
- Ammonium
competition between bacteria, 2099
oxidation inhibition, 2457
- Amoebae
cooling tower biocide effects, 3245
grazing effects on bacteria, 2317
- Amoebicins
B. licheniformis, 1480
- Amylase
S. bovis gene, 189
- α -Amylase
expression in yeast, 1253
gene cloning, expression, 3669
S. bovis, 1398
- β -Amylase gene
cloning from *B. cereus*, 623
- Amylolytic enzymes
thermophilic archaea, 2614
- Anabaena flos-aquae*
dissolved nitrogen uptake, 422
- Anaerobic consortia
dicamba degradation, 2332

- Anaerobic environments
survival of denitrifying bacteria, 3297
- Anaerobic granules
pentachlorophenol degradation, 389
- Ancylobacter aquaticus*
2-chloroethylvinylether degradation, 2777
- Antarctic coastal environment
organic carbon fluxes, 3989
- Anthracene
mineralization, 1931
plasmid-mediated catabolism, 1938
- Antibacterial agents
Peptostreptococcus strain, 2876
plantaricins S and T, 1416
Pseudomonas strains, 2197
- Antibiotic resistance
detection, 417
fecal flora of pigs, 1467
- Antibodies
mycotoxins, 1264
- Anti-DNA-RNA antibodies
Listeria detection, 2698
- Antifungal agents
nystatin, 1049
- Antigen capture polymerase chain reaction
hepatitis A virus detection, 3165
- Antimicrobial agents
bacteriocin, 4313
structural variant of subtilin, 648
- Antiviral agents
copper or iron ions plus peroxide, 4374
rhinoviruses, 1579
- apa-2*
cloning, 3273
- Apiculate wine yeasts
acetoin production, 1838
- Apple cider
E. coli O157:H7, 2526
- Aquatic environments
conjugal gene transfer, 807
mercury methylation, 290
microbial mRNA per gene dose, 451
- Aquatic hyphomycetes
ergosterol-to-biomass conversion factors, 502
- Aquatic sediments
ferric iron, 2727
- Aqueous-phase hybridization assay
Listeria spp., 2690
- Aquifers
leaf decomposition, 3592
treated-sewage contamination, 2304
trichloroethylene degradation, 2746
- Arbitrary primer polymerase chain reaction
B. thuringiensis identification, 114
- Arbuscular mycorrhizal fungi
desertified ecosystem recovery, 129
- Archaea
amino acid requirements, 610
amylolytic enzymes, 2614
P. aerophilum sp. nov., 2918
- Aromatic compounds
Azospirillum chemotaxis, 2951
- Arthrobacter* spp.
longifolene rearrangement, 1691
sodium acrylate oligomer degradation, 1555
- Ascorbic acid
A. hydrophila inactivation, 4166
- Aspartate aminotransferase
S. fradiae, 822
- Aspergillus flavus*
aflatoxin biosynthesis gene, 156
sesquiterpenes, 2264
- Aspergillus fumigatus*
p-cresol metabolism, 1125
- Aspergillus niger*
ethanol production, 729
- Aspergillus oryzae*
forage fiber degradation effects, 3171
- Aspergillus parasiticus*
aflatoxin biosynthesis, 3564
apa-2 gene cloning, 3273
gene disruption, 2998
- Assimilable organic carbon
rapid measurement, 1526, 1532
- Astragalus cicer*
cellulose fermentation effects, 405
- ATP
depletion in *S. typhimurium*, 3509
fungal biomass indicator, 3367
- Atrazine
biodegradation, 2642
metabolism by *Rhodococcus* strains, 1955
mineralization, 1695
novel metabolite, 4342
- Attachment
agrobacteria and grape cells, 2572
B. laevolacticus, 2474
exopolysaccharide synthesis, 3280
V. harveyi and chitin, 373
- Aureobasidium pullulans*
new xylanase, 3212
- Autoplasts
induction and regeneration, 3498
- Autoradiography
H. pylori viability, 1231
- Averufin
norsolorinic acid conversion, 2486
- Avicelase
S. reticuli, 1573
- Azoarcus* spp.
16S rRNA-based identification, 3816
- Azo dyes
decolorization, 4010
- Azoreductase
C. perfringens, 1731
- Azospirillum* spp.
chemotaxis, 2951
- Azotobacter paspali*
vanadium nitrogenase, 1883
- Azotobacter vinelandii*
growth in fish peptone, 4236
poly- β -hydroxybutyrate extraction, 4236
sugar transport and calcium, 89
- Bacillus amyloliquefaciens*
 α -amylase expression in yeast, 1253
- Bacillus cereus*
 β -amylase gene cloning, 623
antimicrobial agent effects, 648
bacteriocin, 4313
cytochrome P-450_{cin}, 3889
permethrinase, 2007
- Bacillus circulans* subsp. *alkalophilus*
 β -glucosidase gene, 927
- Bacillus laevolacticus*
aggregate pH and glucose profiles, 2474
- Bacillus licheniformis*
amoebicins, 1480
- Bacillus methanolicus*
meso-diaminopimelate decarboxylase gene, 2927
- Bacillus polymyxa*
alkaline xylanases, 1376
- Bacillus sphaericus*
mosquitocidal strains, 3470
- Bacillus* spp.
alkaline xylanase, 2311
2-phenylethylamine production, 2720
thermostable protease, 1168
- Bacillus stearothermophilus*
thermostable aminoacylase, 3878
thermostable xylanase, 1725
- Bacillus subtilis*
conditional suicide system, 1361
heavy metal remobilization, 4323
plasmid DNA purification, 1138
rRNA gene hybridization pattern, 919
spore H₂O₂ resistance, 3418
spore photoproduct production, 640
streptavidin secretion, 3894
- Bacillus thuringiensis*
 δ -endotoxin production, 815
detection and differentiation, 523
diamondback moth cross-resistance, 1332
 δ -endotoxin, 2442
insect delta-endotoxin receptors, 1828
insecticidal protein crystals, 2666
protein biotinylation, 1821
screening for *cryV*-like genes, 1683
serovar and strain identification, 114
- Bacillus thuringiensis* subsp. *galleriae*
cryIC-type gene cloning, 1131
- Bacillus thuringiensis* subsp. *israelensis*
cryIVA and *cryIVB* expression, 3922
CryIVD and overall toxicity, 3928
- Bacterial aerosols
wastewater aeration tanks, 3183
- Bacterial hydroxy fatty acids
air conditioner dust, 4354
- Bacterial soft rot
E. carotovora, 3648
- Bacterial sugars
air conditioner dust, 4354
- Bacteriocins
B. cereus, 4313
brochocin-C, 2326
common mechanistic action, 3003
L. plantarum, 1416
lactacin F, 3906
lactococcin B, 1041
pediocin PA-1, 3577
plantaricins S and T, 1416
production by *P. thoenii*, 83
- Bacteriophage lambda
X. bovienii transposon mutagenesis, 3050
- Bacteriophages
abortive phage resistance mechanisms, 208
coexistence with synechococci, 3393
diversity in lakes, 3378
genome of NJL, 97
Key Largo, Florida, 718
L. lactis genetic manipulation, 1966
L. lactis subsp. *cremoris*, 3177
lactococcal defenses, 365
lactococci, 197, 208, 2034, 2449, 3708
model viruses in water, 2956
quantification in the rumen, 2299
shuttle vector methylation, 1077

- Bacterioplankton
growth yield, 3916
- Bacterivory
ectoenzymatic hydrolysis as marker, 3091
- Bahia grass
A. paspali, 1883
- Bangladeshi foods
S. flexneri, 652
- Barley
Fusarium mycotoxins in Korea, 3798
- Barley rhizosphere
siderophore detection, 677
- Berotolerance
fatty acid composition, 924
- Basidiomycetes
phenoloxidase (laccase), 2607
- Basidiospores
P. chrysosporium, 1675
- Beans
nitrogen-fixing symbiosis, 4161
- Beauveria* spp.
molecular variants in mtDNAs, 4283
- Beef
E. coli O157:H7 growth, 2364
- Beef systems
L. monocytogenes, 2552
- Benthic microbial activity
Antarctic coast, 3989
- Bentonite
metabolic activity of rhizobia, 743
- Bifidobacteria
adhesion to Caco-2 cells, 4121
isomaltoligosaccharide syrup, 953
- Bifidobacterium bifidum*
cholesterol assimilation, 1120
- Bile salt deconjugation
microbial cholesterol assimilation, 1120
- Biocontrol
A. radiobacter fate, 2112
A. tumefaciens, 309
damping-off, 4171, 4189
fungal root pathogens, 3899
fungi, 236
genetically engineered bacterium, 2071
P. syringae competition, 3447
- Biodegradable plastics
degradation in compost, 1155
microbial degradation in soils, 3233
poly(3-hydroxyoctanoic acid), 1220
poly- β -hydroxybutyrate, 4236
P(HB-co-HV)-starch blends, 1242
- Biodegradation
acetate, 1742
alkanes, 2977
alkyl sulfides, 4083
bromoalkane, 1403
BTEX, 756
C. subvermispora, 1927
 β -casein tryptic digest, 1430
chlorinated acetophenones, 2706
chlorinated aliphatic compounds, 2041
chlorinated aromatic compounds, 1162
2-chloroallyl alcohol, 528
2-chloroethylvinylether, 2777
m-cresol, 2229
2-deoxyribose, 2077
dibenzofuran, 285
dibenzo-*p*-dioxin, 285
dicamba, 2332
1,2-dichloroethane, 3400
2,4-dichlorophenoxyacetic acid, 4266
dihalogenated diphenyl ethers, 3931
1,2-diphenylethanone, 3477
fluoranthene, 800
fluorene, 285
forage fiber, 3171
fuel hydrocarbons, 467
groundwater pollutants, 1025
herbicides, 2642
iron-citrate complexes, 109
isotactic polypropylene, 3695
leaves, 3592
lignin, 4115
N-methylcarbamate insecticides, 3339
methylmercury, 2479
6-methylquinoline, 2139
nitrilotriacetate, 3350
nitrobenzene, 2520
p-nitrophenol, 3505
4-nitrotoluene, 2239
nylon oligomer, 3978
ortho-cresol, 2286
pentachlorophenol, 389, 3373
peptides in the rumen, 3147
poly(3-hydroxybutyrate-co-3-hydroxyvalerate), 3233
poly(3-hydroxyoctanoic acid), 1220
poly(hydroxybutyrate), 3233
polychlorinated biphenyls, 3858, 4065
poly-(β -hydroxybutyrate-co- β -hydroxyvalerate)-starch blends, 1242
PR toxin metabolites, 981
propionate, 1003
2-propylphenol, 860
sodium acrylate oligomer, 1555
starch-polyethylene plastics, 1155
synthetic lubricant, 1072
testing of assumptions, 1201
toluene, 1911
trichloroethylene, 960, 1911, 2746
2,4,5-trichlorophenol, 1779
xenobiotic compounds, 1717
- Biofilm reactors
lactic acid production, 203
- Biofilms
cell activity, 1354
evaluation of respiring bacteria, 3850
exopolysaccharide production, 1181
identification of bacteria, 2293
iodine resistance, 2320
P. aeruginosa, 327
plasmid transfer, 843
spatial distribution of cells, 1951
sulfate-reducing bacteria, 3840
- Biofouling
electrochemical prevention, 3757
- Biogeochemical cycling
effects of recombinant in soil, 508
- Biological containment systems
P. putida, 3713
- Biological inactivation
L. monocytogenes, 2914
- Bioluminescent sensors
detection of Hg(II), 3683
- Biomass
bacteria from metal-tainted soils, 3605
contaminant sorption, transport, 1813
food-borne fungi, 552
fungi on decomposing leaves, 3367
sedimentation field-flow fractionation, 1864
- Biomedical waste
decontamination, 4335
- Bioremediation
containment system, 3713
munition compounds in soil, 2171
PCB-contaminated soil, 1735
- Biosynthesis
aerobactin, 4189
aflatoxin, 156, 479, 1642, 3564
aflatoxins, 2486, 2493, 3273
antibiotic substances, 1149
carotenoids, 867
exopolysaccharide, 3280
heat-stable enterotoxin, 3314
hydromorphone, 2166
6-pentyl- α -pyrone, 2945
subtilin, 296
tylosin, 822
- Biotin
production by *S. marcescens*, 2857, 3225
- Biotinylation
B. thuringiensis proteins, 1821
E. coli envelope proteins, 663
- Biotransformation
fluorene, 1977
tetrachloromethane, 3763
trichloroethylene, 2277
- Biphasic aqueous-organic system
xenobiotic compound degraders, 1717
- Biphenyl dioxygenase gene
site-directed mutagenesis, 3858
- Bivalves
indigenous bacteria, 1848
- Bjerkandera* spp.
lignin peroxidase, 4031
- Blackleg
detection of infected seed, 3681
- Blastobacter* spp.
carbaryl hydrolase, 2121
- Bologna sausage
E. faecium growth, 3411
- Borrelia* spp.
acylated proteins, 3938
- Botrytis cinerea*
conidial adhesion, 1786
- Botulin toxin
colony immunoblot assay, 2339
- Botulinum neurotoxins
gene detection, 3011
- Bradyrhizobium elkanii*
common soybean inoculant strains, 4371
- Bradyrhizobium japonicum*
c;tochrome P-450 locus, 4136
genotypic diversity among strains, 3130
hemH expression in *E. coli*, 2347
protocatechuate 3,4-dioxygenase genes, 2717
- serocluster 123 repeated sequence, 1656
serocluster 123 strains, 1702
siderophore utilization, 1688
- Bradyrhizobium* spp.
plasmid transfer, 1762
- Brettanomyces lambicus*
 α -glucosidase, 2352
- Brochocin-C
new bacteriocin, 2326
- Brochothrix campestris*
new bacteriocin, 2326
- Broiler chickens
bacterial colonization, 987
- Bromoalkane
biodegradation, 1403
- Brook waters
mycobacteria, 398

- BTEX**
biodegradation, 756
- Butane**
biodegradation, 2977
- Butyrate**
degradation, 2546
propionate degradation effects, 1003
- Butyrate oxidation**
inhibition by formate, 628
- By-product secretion**
E. coli glucose catabolism, 2465
- Byssinosis**
bacterial growth in cotton bolls, 974
- Cabbage fermentation**
L. mesenteroides, 3778
- Caco-2 cells**
bifidobacterium adhesion, 4121
- Cactuses**
bacterial communities, 1
- Cadmium**
bacterial precipitation, 7
- Calcium**
A. vinelandii and sugar transport, 89
- Campylobacter coli**
detection, 4090
- Campylobacter jejuni**
broiler chicken colonization, 987
colonization factors, 1269
detection, 4090
- Campylobacter spp.**
detection, 2161
- Capsid proteins**
abortive phage resistance mechanisms, 208
- Carbaryl hydrolase**
Blastobacter strain, 2121
- Carbon**
fluxes in Antarctic coast, 3989
- Carbon dioxide**
colonic reduction to acetate, 3551
metabolism by *S. dextrinosolvens*, 748
Neocallimastix fermentative metabolism, 2678
- Carbon dioxide evolution**
biodegradability in soil, 1201
- Carbon metabolism**
T. versicolor, 1855
- Carbon monoxide**
Neocallimastix fermentative metabolism, 2678
- Carbon tetrachloride**
bacterial dehalogenation, 1635
transformation, 2126
- Carbon-chloroprene sheet**
biofouling prevention, 3757
- Carboxymethylcellulase**
marine shipworm bacterium, 1259
- Carotenoids**
biosynthesis, 867
- κ -Carrageenan gel beads**
spatial distribution of cells, 1951
- Carrier adjuvant**
antibodies to mycotoxins, 1264
- β -Casein tryptic digest**
debittering and degradation, 1430
- Catabolism**
anthracene and phenanthrene, 1938
dimethyl sulfide, 3784
- cba**
cloning and expression, 3625
- cbh1-4**
cellobiohydrolase gene, 3492
- cDNA**
aflatoxin biosynthesis, 3564
- α -Cedrene**
allylic oxidation, 1336
- Cell activity**
biofilms, 1354
- Cell blot technique**
environmental isolate identification, 3219
- Cell culture**
poliovirus detection, 3145
- Cell density**
P. aeruginosa iodine resistance, 2320
- Cell envelope**
biotinylation in *E. coli*, 663
L. lactis proteinase specificity, 3640
S. thermophilus proteinase, 177
- Cell sorting**
bacteria from lakes and sewage, 3327
- Cell surface**
L. lactis subsp. *cremoris*, 3177
T. ferrooxidans adhesion, 4051
thermophilic dairy streptococci, 4305
- Cell wall peptidase**
L. lactis subsp. *cremoris*, 3076
- Cellobiohydrolase gene**
P. chrysosporium, 3492
- Cellobiose**
utilization by *R. albus*, 2631
- Cellulolytic bacteria**
S. reticuli, 1573
- Cellulose**
biodegradation, 1963
- Cellulose fermentation**
inhibition in the rumen, 405
- Ceriporiopsis subvermispora***
lignin mineralization, 1792
- Charge characteristics**
L. lactis cell envelope, 3640
- Cheese**
L. monocytogenes, 1289
- Chemical speciation**
mercury(II) toxicity, 1507
- Chemostat culture**
V. alginolyticus, 60
- Chemotaxis**
Azospirillum spp., 2951
- Chernobyl ^{137}Cs**
contamination of mushrooms, 134
- Chesapeake Bay**
actinomycetes, 997
- Chestnut blight fungus**
laccases, 3634
- Chicks**
C. jejuni colonization, 1269
- Chironomus plumosus**
bacterial flora in larvae, 1236
- Chitin**
attachment of *V. harveyi*, 373
- Chitinase**
S. thermomolliculus, 620
- Chlamydia pneumoniae***
survival in aerosols, 2589
- Chlorhexidine gluconate**
S. marcescens growth, 183
- Chlorinated acetophenones**
microbial degradation, 2706
- Chlorinated aliphatic compounds**
bacterial growth kinetics, 2041
- Chlorinated aromatic compounds**
biodegradability, 1162
- Chlorinated compounds**
reductive dehalogenation, 3266
- Chlorinated guaiacols**
metabolism, 3424
- Chlorine**
H. vermiformis survival, 4096
- 2-Chloroallyl alcohol**
Pseudomonas sp., 528
- 4-Chloroaniline**
4-chloronitrobenzene reduction, 4350
- Chlorobenzoate**
catabolism by *P. putida*, 2790
- Chlorobenzoate-degrading bacteria**
PCB mineralization, 1194
- Chlorobenzoate-3,4-dioxygenase**
gene cloning, expression, 3625
- 2-Chloro-4-ethylamino-6-(1-hydroxyisopropyl)amino-1,3,5-triazine**
novel atrazine metabolite, 4342
- 2-Chloroethylvinylether**
biodegradation, 2777
- Chloromethane-utilizing systems**
P. chrysosporium, 1461
- 4-Chloronitrobenzene**
abiotic reduction, 4350
- (R)-3-Chloro-1,2-propanediol**
production by a *Corynebacterium* sp., 227
- Cholera toxin**
antibodies to mycotoxins, 1264
- Cholesterol**
microbial assimilation, 1120
- Cholesterol oxidation**
mycobacteria in Tween 80, 1425
- Chromate reduction**
A. radiobacter, 3516
- Chromium**
enzymatic reduction by *E. coli*, 3771
- Chromogens**
indoxyl- β -D-glucuronide, 2758
- Chromosome**
Agrobacterium spp., 1310
L. lactis and Tn917, 21
rearrangements in *S. cerevisiae*, 322
- Chromosome polymorphisms**
H. polymorpha, 939
P. angusta, 939
- Cicer milkvetch**
cellulose fermentation effects, 405
- 1,4-Cineole**
hydroxylation by *B. cereus*, 3889
- Citrate**
metabolism by *L. lactis*, 4216
- Classification**
B. japonicum, 1702
- Claviceps purpurea***
ergot peptide production, 2029
- Cloning**
A. hydrophila lipase gene, 2411
A. parasiticus apa-2, 3273
aerobactin biosynthesis genes, 4189
aflatoxin gene *aft-2*, 156
aflatoxin synthesis cDNA, 3564
agarase 0107 gene, 3750
 α -amylase, 3669
B. cereus β -amylase gene, 623
B. japonicum cytochrome P-450 locus, 4136
chlorobenzoate-3,4-dioxygenase genes, 3625
crtB, 3150
cryIC-type gene, 1131
desulfurization genes, 2837

- meso*-diaminopimelate decarboxylase gene, 2927
 endoxylanase gene, 3134
 β -glucosidase gene, 927
 glutamate 1-semialdehyde 2,1-aminomutase gene, 347
pepC, 330
 protocatechuate 3,4-dioxygenase genes, 2717
S. bovis amylase gene, 189
S. pyogenes lantibiotic gene, 1969
sakB, 2868
ScrFI methylase genes, 777
 thermostable aminoacylase gene, 3878
trp gene cluster, 791
 tyrosine phenol-lyase gene, 3070
Clostridium acetobutylicum
 degeneration-resistant mutant, 4198
 shuttle vector methylation, 1077
Clostridium botulinum
 neurotoxicity, 3825
Clostridium butyricum
 neurotoxicity, 3825
Clostridium cellulolyticum
 crystalline cellulose colonization, 3154
Clostridium difficile
 cytotoxin production, 3985
Clostridium kluyveri
 dehydrogenases, 1876
Clostridium perfringens
 azoreductase, 1731
 esterase polymorphism, 496
 indicator for viruses and cysts, 2418
 nitroreductase, 1731
 sewage contamination indicator, 47
Clostridium thermoaceticum
 acetogenesis, 3062
 cadmium precipitation, 7
Clostridium thermohydrosulfuricum
 autoplasts, 3498
 glucose uptake, 2984
Clostridium thermosaccharolyticum
 pectinolytic enzymes, 828, 837
 Coal depyritization
 M. sedula, 2375
 Coated DNA
 abundance in seawater, 712
 Cobalamin
 mercury methylation, 290
 Colilert-Marine Water
 evaluation in marine environment, 786
 Colonization
 broiler chickens, 987
 C. jejuni and chicks, 1269
 cotton fiber, 974
 crystalline cellulose, 3154
 epiphytes with reduced fitness, 1586, 1593
 epiphytic bacteria, 410
 lactobacilli and human intestine, 15
 roots and fungal pathogens, 1767
 Colony hybridization
 L. lactis subsp. *lactis*, 3941
 Colony immunoblot assay
 botulin toxin, 2339
 Colony morphotype
 diversity, 933
 oyster hemocytes and *V. vulnificus*, 1012
 Colorimetry
 Y. enterocolitica, 2938
 Commercial presence-absence test kits
 evaluation, 380
 Competition
 1,2-dichloroethane-degrading bacteria, 3400
 method for investigation, 1991
 nitrifying and heterotrophic bacteria, 2099
 P. fluorescens in soil, 580
 P. syringae on leaves, 3447
 protozoan grazing effects, 2099
 Complex microbial populations
 profiling, 695
 Compost
 degradable plastic degradation, 1155
 Condensed tannins
 effects on *F. succinogenes*, 2132
 Conditional suicide system
 E. coli in soil, 1361
 Conidia
 adhesion to substrata, 1786
 Conjugal gene transfer
 aquatic bacteria, 807
 Conspecificity
 P. syringae, 1082
 Contact lens solutions
 S. marcescens, 183
 Continuous culture
 ergot peptide production, 2029
 α -galactosidase production, 52
 pentachlorophenol degraders, 3373
 Cooling tower biocides
 effect on amoebae, 3245
 Cooling tower water
 Legionella spp., 1943
 Copepods
 association with *V. alginolyticus*, 1960
 Copper
 virus inactivation, 4374
 Copper resistance
 M. trichosporium, 2771
 P. fluorescens, 580
 P. syringae, 1018, 1627, 1671
 X. campestris, 1627
 Copper stress
 V. alginolyticus, 60
 Copper-containing nitrate reductase
 structural gene, 250
 Copper-resistant enteric bacteria
 piggeries, 2531
 Copy number
 lactococcal phage resistance, 2449
 Coral reefs
 viral abundance, 718
Coriolus versicolor
 phenolic group xylosylation, 438
 Corn
 Fusarium mycotoxins in Korea, 3798
 mycotoxins, 2864
 Coronatine
 P. syringae pv. *glycinea*, 1619
 Correlative association
 plasmids and chromosome, 1310
 Corrinoid-dependent enzymes
 fluorinated vitamin B₁₂ analogs, 599
 Corrinoid-dependent methyl transfer reactions
 S. ovata methanol metabolism, 3110
 Corrinoid-protein interactions
 probe, 599
Corynebacterium glutamicum
 glutamate formation, 2329
 lysine excretion systems, 316
 trp gene cluster cloning, 791
Corynebacterium spp.
 (R)-3-chloro-1,2-propanediol production, 227
 tetralin metabolism, 567
 Coryneform bacteria
 cell surface and adhesive properties, 3973
 Cotton fiber
 bacterial colonization, 974
p-Coumaroyl arabinoxylans
 substrates for rumen bacteria, 644
Crassostrea virginica
 V. vulnificus, 1012
 V. vulnificus enumeration, 3519
 Creels
 rotavirus in São Paulo, Brazil, 140
m-Cresol
 detection of metabolites, 2229
ortho-Cresol
 biodegradation, 2286
p-Cresol
 metabolism by *A. fumigatus*, 1125
 Crown gall
 biocontrol, 309
crtB
 cloning and sequence analysis, 3150
 Crucifers
 X. campestris gene expression, 3996
cryIC-type gene
 cloning, 1131
cryIVA
 expression in *B. thuringiensis*, 3922
cryIVB
 expression in *B. thuringiensis*, 3922
cryIVB gene expression
 Synechococcus strain PCC 7942, 2404
cryIVD
 δ -endotoxin production, 815
CryIVD polypeptide
 B. thuringiensis toxicity, 3928
Cryphonectria parasitica
 laccases, 3634
 Cryptic plasmids
 shuttle plasmid construction, 2807
Cryptosporidium parvum
 dose response in mice, 3661
 folds or sutures on oocysts, 2638
 oocyst viability, 4361
 ozone inactivation, 4203
Cryptosporidium spp.
 waterborne oocysts in the Yukon, 67
 Crystalline cellulose
 colonization by *C. cellulolyticum*, 3154
cryV-like genes
 screening method, 1683
 Culturability
 water-stressed soil bacteria, 1560
 Culturable bacteria
 cocoon of the earthworm, 1904
Cunninghamella elegans
 fluorene transformation, 1977
 5-Cyano-2,3-ditolyl tetrazolium chloride
 evaluation of respiring bacteria, 3850
 Cyanobacteria
 aminopeptidases, 3701
 cyanophages, 3736
 cytochrome oxidase, 3239
 dissolved nitrogen uptake, 422
 Fe protein modification, 669
 nitrite excretion, 3161
 nitrogen fixation, 1495
 response to ionic-osmotic stress, 899
 UV sunscreen compound, 170

- UV-absorbing compounds, 163
- Cyanophages
coexistence with *Synechococcus*, 3393
Synechococcus spp., 3736
- Cyclodextrins
lipid carriers for mycoplasmas, 547
- cysE*
expression in eukaryotes, 892
- cysK*
expression in eukaryotes, 892
- Cysteine aminopeptidase
gene cloning, sequencing, 330
- Cysts
drinking water, 2418
Giardia spp., 772, 3674
H. pluvialis, 867
- cytA*
 δ -endotoxin production, 815
- Cytochrome c_3
uranium reduction, 3572
- Cytochrome oxidase
T. thiebautii, 3239
- Cytochrome P-450
B. japonicum, 4136
- Cytochrome P-450_{cin}
B. cereus, 3889
- Cytochromes
tetrachloromethane transformation, 3763
- Cytoplasmic inclusion bodies
pre- β -lactamase aggregation, 561
- Cytotoxin
production by *C. difficile*, 3985
- Dairy products
Leuconostoc sp. isolation, 607
- Dairy propionibacteria
paracrystalline surface layers, 2369
- Damping-off
organic matter decomposition effect, 4171
- Debitting
 β -casein tryptic digest, 1430
- Dechlorination
picloram, 2251
polychlorinated biphenyls, 3027
tetrachloroethene, 2991
- Decolorization
dyes, 4010
- Decomposing leaves
fungal biomass indicators, 3367
- Decontamination
biomedical waste, 4335
- Degeneration
solvent-producing *C. acetobutylicum*, 4198
- Degradative microbial consortia
steady-state diffusion gradients, 2388
- Dehalogenation
carbon tetrachloride, 1635
chlorinated benzenes, toluenes, 3266
nitrapyrin, 3597
picloram, 2251
- Dehydrogenases
C. kluyveri, 1876
- Delignification
forage digestibility improvement, 4274
kraft pulp, 260, 266
- Delta-endotoxin
production by *B. thuringiensis*, 815
- Delta-endotoxin receptors
European corn borer, 1828
- Demethylation
m-cresol degradation, 2229
kraft pulp, 260
- O-Demethylation
 H_2 -CO₂ dependence, 1325
- Denaturing gradient gel electrophoresis
microbial population profiling, 695
- Denitrification
copper-containing nitrate reductase, 250
sediments, 2093
- Denitrifying bacteria
alkyl sulfide degradation, 4083
anaerobic toluene utilization, 3157
carbon tetrachloride dehalogenation, 1635
nitrate denitrification, 3951
nitrotriacetate degradation, 3350
survival, 3297
- Deoxybenzoin
metabolism, 3477
- 2-Deoxyribose
utilization by *S. ruminantium*, 2077
- Depyritization
coal, 2375
- $\Delta 5$ -Desaturase
M. alpina mutant, 4300
- Desert grass
nitrogen fixer populations, 3021
- Desertified ecosystems
recovery, 129
- Desulfovibrio desulfuricans*
mercury methylation, 290
methylmercury degradation, 2479
- Desulfovibrio vulgaris*
periplasmic [Fe] hydrogenase, 491
uranium reduction, 3572
- Desulfurization
Rhodococcus strain, 2837
- Desulfurococcus* spp.
amino acid requirements, 610
- Desulfuromonas acetoxidans*
Fe(III) reduction, 734
- Detection
aerobactin, 942
antibiotic resistance, 417
B. thuringiensis, 523
bacterial tannase, 1251
bioavailable Hg(II), 3083
blackleg-infected seed, 3681
Campylobacter spp., 4090
Campylobacter spp. in food, 2161
commercial presence-absence test kits, 380
conjugal gene transfer, 807
m-cresol metabolites, 2229
E. coli, 4347
E. coli in sewage, sludge, 353
enteric viruses in oysters, 631
enteroviruses, 1213, 3485
enteroviruses in groundwater, 1318
Frankia strains, 1709
hepatitis A virus, 2765, 3165, 3485
hepatitis E virus, 2558
L. monocytogenes, 1289, 2743
lactococcal phages, 2034
Legionella spp., 1943, 3618
Listeria spp., 304, 2698
mRNA in *Streptomyces* cells, 2753
neurotoxin genes, 3011
nonviable bacterial pathogens, 3513
pathogenic *Y. enterocolitica*, 2938
PCB degradation genes, 4065
poliovirus in water samples, 3145
- pseudobactin, 677
recombinant DNA, 2657
rotavirus in São Paulo, Brazil, 140
S. dysenteriae type 1, 536
S. jonesii, 1607
S. putrefaciens, 4152
Salmonella spp., 1383, 1473
salmonellae, 1342
tetracycline resistance determinants, 1467
total coliforms and *E. coli*, 786, 3534
V. cholerae in foods, 556
viruses in shellfish, 3963
X. campestris pv. citri, 1143
- Diacetyl
L. lactis bv. diacetylactis, 1893
4,15-Diacetylnivalenol
polyclonal antibodies, 1264
meso-Diaminopimelate decarboxylase gene
cloning and sequence analysis, 2927
- Diamondback moth
resistance to *B. thuringiensis*, 1332
- Diazotrophs
Azoarcus spp., 3816
- Dibenzofuran
biodegradation, 285
- Dibenzo-*p*-dioxin
biodegradation, 285
- Dibenzothiophene
desulfurization, 2837
- Dicamba
biodegradation, 2332
- 1,2-Dichloroethane-degrading bacteria
competitive behavior, 3400
- Dichloromethane
utilization by anaerobes, 3790
- 2,4-Dichlorophenoxyacetic acid
biodegradation, 2642
biodegradation, sorption, transport, 4266
mineralization, 2904
- 1,3-Dichloro-2-propanol
(*R*)-3-chloro-1,2-propanediol production, 227
- Diel variation
rRNA in marine bacteria, 2430
- Diet
fiber and fecal microflora, 657
- Diffusion plate technique
degradative microbial consortia, 2388
- Dihalogenated diphenyl ethers
biodegradation, 2931
- Dihomo- γ -linolenic acid
production by *M. alpina*, 4300
- trans*-Dihydrodiols
enantiomeric composition, 2145
- 2,3-Dihydroxybenzoic acid
enzymatic determination, 2343
- L-Dihydroxyphenylalanine
production in *E. coli*, 3070
- Dikaryons
T. versicolor, 266
- Dilution culture
marine bacteria, 881
typical marine bacteria, 2150
- 3,4-Dimethoxybenzoate
metabolism by *S. ovata*, 3110
- Dimethyl ether
ammonium oxidation inhibition, 2457
nitrous oxide formation inhibition, 2457
- Dimethylnaphthalene isomers
microbial oxidation, 1504

- Dimethyl sulfide
catabolism, 3784
consumption in estuaries, 2723
- 1,2-Diphenylethanone
metabolism, 3477
- Dipicolinic acid
enhancement of spore photoproduct, 640
- Disaggregation
Methanosarcina spp., 3832
- Disinfection
marine biofouling, 3757
rhinovirus type 14, 1579
- Dissimilatory iron-reducing enrichment culture
4-chloronitrobenzene reduction, 4350
- Dissolved nitrogen
uptake by cyanobacteria, 422
- Distribution
bacteria in water purification systems, 1410
marine viruses, 4074
microbial activity in methanogenic aggregates, 3803
Streptomyces subtilisin-like proteins, 4338
sulfate reducers in biofilms, 3840
- Diversity
actinomycetes in Chesapeake Bay, 997
B. japonicum strains, 3130
bacteriophages in lakes, 3378
colony morphotype, 933
lactococcal proteinase, 3640
microbial population profiling, 695
organic matter decomposition effect, 4171
subsurface marine microorganisms, 1294
- DNA
abundance in seawater, 712
aquifer bacteria, 2304
coastal distribution, 4074
extraction directly from soil, 2657
persistence in soil, 4289
purification from soils, 1972
rRNA gene hybridization pattern, 919
S. bovis *proBA* operon, 519
Tn5-like sequences, 417
- DNA colony hybridization
L. monocytogenes, 144
- DNA probes
L. acidophilus, 3871
L. monocytogenes, 144
rice yellow dwarf mycoplasma-like organisms, 1206
- DNA sequence variation
P. syringae pv. *syringae*, 4180
- L-DOPA
production in *E. coli*, 3070
- Dormancy
M. luteus, 3187
- Dose response
C. parvum in mice, 3661
- Drinking water
evaluation of respiring bacteria, 3850
identification of bacteria, 2293
rapid AOC measurement, 1526, 1532
treatment for viruses, cysts, 2418
- Dump sites
C. perfringens as indicator, 47
- Dyes
decolorization, 4010
- Earthworms
culturable bacteria, 1904
- Ectoenzymatic hydrolysis
protozoan bacterivory marker, 3091
- Edwardsiella ictaluri*
plasmid and serological differences, 2830
- Eggs
contamination by *S. enteritidis*, 2884
- Eisenia fetida*
culturable bacteria, 1904
- Elastase
P. intermedia, 2107
- Electrochemical disinfection
biofouling prevention, 3757
- Electron microscopy
lake bacteriophages, 3378
- Electrophoretic analysis
C. perfringens esterases, 496
- Electrophoretic types
L. monocytogenes, 2817
- Electroporation
K. lactis, 2087
plasmid DNA persistence in soil, 3438
- Electrostatic cell surface properties
thermophilic dairy streptococci, 4305
- Electrotransformation
C. acetobutylicum, 1077
- Enantiomeric composition
trans-dihydrodiols, 2145
- Endoglucanase
expression in *S. lividans*, 3032
F. succinogenes, 2132
- β -(1,4)-Endoglucanase
recombinant yeast strain, 2801
- Endomycorrhizal fungi
identification, 4211
- Endophytes
non-*Acremonium* spp., 1540
- δ -Endotoxin
structural stability, 2442
- Endo-type 6-aminohexanoate oligomer hydrolase
purification, characterization, 3978
- Endoxylanase
gene cloning and sequencing, 3134
- Energy generation
L. lactis during citrate metabolism, 4216
- Enteric bacteria
copper resistance, 2531
- Enteric viruses
detection in oysters, 631
models in fresh water, 2956
- Enterobacter cloacae*
aerobactin biosynthesis genes, 4189
water stress in soil, 1560
- Enterobacteriaceae*
aerobactin detection, 942
- Enterococci
enumeration in meats, 936
- Enterococcus faecium*
growth modeling, 3411
- Enteropathogenic bacteria
competitive exclusion, 4121
- Enteropathogenic *E. coli*
adhesion to ileal mucus, 34
- Enterotoxins
S. aureus, 1515
Y. enterocolitica, 3314
- Enteroviruses
concentration method, 3488
detection, 3963
detection in groundwater, 1318
detection in waters, 1213
- Enumeration
aerobic colony count improvement, 2784
bacteria in meats, 936
L. acidophilus, 3871
L. monocytogenes, 144
quality control, 922
ruminal bacteriophages, 2299
sedimentation field-flow fractionation, 1864
V. vulnificus, 3474
V. vulnificus in oysters, 3519
viruses in suspensions, 3123
- Environmental factors
competition between bacteria, 1991
- Enzyme regulation
periplasmic [Fe] hydrogenase, 491
- Enzyme-linked immunosorbent assay
lactococcal phages, 2034
quantification of viruses, 3123
Salmonella spp., 1383
verotoxigenic *E. coli*, 4223, 4223
- Enzymes
B. cereus β -amylase, 623
C. subvernispura, 1792
T. saccharolyticum, 763
- Epidemiology
L. monocytogenes, 2817
plant pathogens, 410
- Epiphytic bacteria
dynamics, spread, and persistence, 1082
mutants with reduced fitness, 1586, 1593
phenotypic plasticity, 410
- Ergosterol
fungal biomass indicator, 3367
- Ergosterol-to-biomass conversion factors
aquatic hyphomycetes, 502
- Ergot peptides
production by *C. purpurea*, 2029
- Erwinia carotovora*
anaerobic nitrate respiration, 3648
potato tuber invasion, 3648
- Erwinia chrysanthemi*
pectate lyase isozymes, 1756
- Erwinia herbicola*
tyrosine phenol-lyase gene, 3070
- Escherichia coli*
adhesion to pig ileal mucus, 34
 α -amylase gene expression, 3669
commercial presence-absence test kits, 380
conditional suicide system, 1361
containment system for *P. putida*, 3713
detection, 786, 4347
detection in sewage and sludge, 353
DNA persistence in soil, 4289
L-DOPA production, 3070
elimination in meats, 1030
envelope protein biotinylation, 663
excess phosphate accumulation, 3744
gene expression fine regulation, 3485
glucose catabolism, 2465
growth yield alteration, 4261
GUS gene fusion system, 1767
hemH expression, 2347
hexavalent chromium reduction, 3771
inactivation by TiO_2 , 1668
isolation by ELISA, 4223
low osmolality sensitivity, 2760
media, 3534
movement through sand, 3686
plasmid DNA persistence in soil, 3438
shuttle plasmid construction, 2807
specific chromogen, 2758

- thermostable protease expression, 1168
uidA distribution, 2271
 verotoxin-producing strains, 1981
 virulence of sorbitol-positive mutant, 4245
- Escherichia coli* O157:H7
 apple cider, 2526
 comparison and genomic sizing, 3141
 growth on salad vegetables, 1999
 survival and growth, 2364
- Esterase
P. freudenreichii, 4004
- Esterase electrophoretic polymorphism
C. perfringens, 496
- Estuaries
 dimethyl sulfide consumption, 2723
- Ethanol
 production by *P. tannophilus*, 231
 production by yeasts, 729
 production from xylitol, 1049
 yeast freeze-thaw stress resistance, 1065
- Ethylene
Glycine max nodulation, 1947
- Eukaryotic cells
 bacterial gene expression, 892
- European corn borer
 delta-endotoxin receptors, 1828
- Exoglucanase
 expression in *S. lividans*, 3032
- Exopolysaccharide
 production in biofilms, 1181
S. colwelliana, 1565
 synthesis by a bacterium, 3280
- Exopolysaccharides
 production by *A. salmonicida*, 2437
- Exotic carbon source
P. putida growth in soil, 2056
- Experimental indoor environments
 airborne fungal spores, 219
- Extracellular proteins
G. virens, 236
- Extraction
 DNA from soil, 2657
- Fatty acids
 pressure and temperature effects, 924
 white *Thermus* strain, 1975
- Fe(III)
 reduction by *D. acetoxidans*, 734
- Fecal microflora
 CO₂ reduced to acetate, 3551
 fermentation acids, 657
- Fecal pollution
 coral reefs, 718
 detection, 786
- Fecal streptococci
 enumeration in meats, 936
 environmental samples, 2190
- Fe protein
 modification in *T. thiebautii*, 669
- Fermentation
 cellulose in the rumen, 405
 ethanol production, 729
 lactose, by yeast cells, 4230
S. dextrinosolvens, 748
- Fermentation acids
 fecal microflora, 657
- Fermentative metabolism
Neocallimastix strain, 2678
- Fermented oatmeal soup
Lactobacillus administration, 15
- Ferric iron
 composition in sediments, 2727
- Ferrous iron
D. vulgaris enzyme regulation, 491
- Ferulic acid
 microbial transformation, 2244
- Feruloyl arabinoxylans
 substrates for rumen bacteria, 644
- Fibrobacter succinogenes*
 condensed-tannin effects, 2132
- Field application vectors
 soil bioremediation, 1735
- Filamentous bacteria
Thiothrix spp., 1274
- Filter paper digestion
F. succinogenes, 2132
- Filtration
 detection of *Campylobacter* spp., 4090
- Fingerprinting
B. japonicum strains, 1702
B. thuringiensis, 114
 procaryotic repetitive DNA, 1391
- Firefly luciferase gene
 tagging of *R. meliloti*, 2511
- Fish pathogens
A. salmonicida survival, 874
- Fish peptone medium
A. vinelandii growth, 4236
- Flagella
C. jejuni colonization, 1269
- Flavobacterium* spp.
 nylon oligomer degradation gene, 3978
- Flow cytometry
 analysis of marine bacteria, 905
 bacteria from lakes and sewage, 3327
- Fluoranthene
 biodegradation, 800, 1927
- Fluorene
 biodegradation, 285, 1927
 biotransformation, 1977
- Fluorescein immunolabeling
 microorganisms in a biofilm, 1951
- Fluorescent-antibody methods
 flow cytometry and cell sorting, 3327
- Legionella* spp., 3618
- S. dysenteriae* detection, 536
- Fluorescent gentamicin-thallous-carbonate agar
 bacterial enumeration in meats, 936
- Fluorinated compounds
 aromatic metabolite detection, 2229
- Fluorinated vitamin B₁₂ analogs
 corrinoid-dependent enzymes, 599
- Fluorometry
 marine bacterium RNA/DNA ratio, 1303
- Foliar chlorosis
 induction by *R. tropici*, 2184
- Food
Campylobacter spp., 2161
E. coli O157:H7, 1030, 2364
E. faecium growth, 3411
L. innocua tetracycline resistance, 614
Leuconostoc sp. isolation, 607
 mold antigens, 2563
S. flexneri, 652
Salmonella spp., 1383
 staphylococcal enterotoxin assays, 2210
V. cholerae detection, 556
Y. enterocolitica, 2938
- Food-borne fungi
 biomass measurements, 552
- Forage
 cicer milkvetch, 405
 digestibility improvement, 4274
- Forage fiber
 degradation by ruminal microorganisms, 3171
- Forest soils
 methane consumption, 485
- Formate
 butyrate oxidation inhibition, 628
 propionate and butyrate degradation, 2546
- Frankia* spp.
 whole-cell hybridization, 1709
- Freeze-dried engineered bacteria
 survival, 594
- Freeze-thaw stress
 resistant *S. cerevisiae*, 1065
- Fresh water
 models for enteric viruses, 2956
- Freshwater sediments
 tetrodotoxin, 3934
- Fructose
 uptake by *L. lactis*, 3206
- F-specific RNA bacteriophages
 model viruses in water, 2956
- Fuel spills
 protozoa in subsurface, 467
- Fumarate
 utilization by syntrophic bacteria, 1114
- Fumonisin B₁
F. moniliforme, 2673
 thermostability, 2864
- Fungal biomass
 ATP and ergosterol as indicators, 3367
- Fungal endophytes
 non-*Acremonium* spp., 1540
- Fungal pellets
 spectroscopic analysis, 4253
- Fungal spores
 monitoring in the air, 219
- Fungi
 lignin degradation, 4129
 lignin peroxidases, 4017
- Fusarium crookwellense*
 nivalenol in Hokkaido, 3334
- Fusarium moniliforme*
 fumonisin B₁, 2864
 fumonisin B₁ production, 2673
- Fusarium oxysporum*
 antagonism towards pathogenic fusaria, 74
 colonization of roots, 1767
- Fusarium poae*
 nivalenol in Hokkaido, 3334
- Fusarium* spp.
 mycotoxins in Korea, 3798
- α-Galactosidase
 production by fungi, 52
T. reesei, 1347
- Gallium
 binding to *P. fluorescens*, 4056
- Gas chromatography-mass spectrometry
 bacteria in air conditioner dust, 4354
- gef
 containment system for *P. putida*, 3713
- Gene disruption
A. parasiticus, 2998
- Gene expression
 aquatic microorganisms, 451
cysE and *cysK* in eukaryotes, 892

- fine regulation in *E. coli*, 3485
G. pulicaris, 2359
 nitrogen limitation in fungi, 2335
P. aeruginosa alginate gene, 1181
P. chrysosporium, 3946
X. campestris, 3996
 Gene polymorphism
 MEL in genus *Saccharomyces*, 2622
 Gene probes
 poliovirus detection, 3145
 Gene regulation
 S. bovis amylase gene, 189
 Gene sequences
 P. syringae *tblA*, 458
 Gene transcription
 P. chrysosporium, 4295
 Gene transfer
 neurotoxicity, 3825
 Genetic instability
 S. rimosus, 2220
 Genetic recombination
 T. thermophilus mutants, 2737
 wine yeast strain, 2801
 Genetic transformation
 A. calcoaceticus, 1662
 C. acetobutylicum, 1077
 K. lactis, 2087
 Genetic variability
 A. alternata, 3197
 Genetic variation
 J. lividum, 2214
 Genetically engineered microorganisms
 biocontrol, 2071
 conditional suicide system, 1361
 DNA persistence in soil, 4289
 effects in soil, 508
 survival in the dry state, 594
 Genome
 bacteriophage NJL, 97
 bacteriophages c2 and sk1, 3708
 E. coli O157:H7, 3141
 oil field microbial communities, 4101
 Genomic probes
 enterovirus RNA detection, 3963
 hepatitis A virus RNA detection, 3963
 Genotypic diversity
 B. japonicum strains, 3130
 Genus-specific probes
 Listeria spp., 2690
Giardia lamblia
 cyst inactivation, 3674
 selective concentration, 772
Giardia muris
 cyst inactivation, 3674
Giardia spp.
 waterborne cysts in the Yukon, 67
Gibberella fujikuroi
 gibberellic acid production, 4317
Gibberella pulicaris
 Tax5 expression, 2359
 Gibberellic acid
 glutamine involvement in nitrogen control, 4317
Gleocapsa spp.
 UV sunscreen compound, 170
Glucoladium virens
 extracellular proteins, 236
 Glucose
 listeriolysin O production, 3495
 metabolism by *S. dextrinosolvens*, 748
 metabolism in marine sediments, 120
 Synechocystis nitrite excretion, 3161
 utilization by *R. albus*, 2631
 Glucose catabolism
 E. coli, 2465
 Glucose profiles
 B. laevolacticus aggregates, 2474
 Glucose toxicity
 P. ruminicola, 2844
 Glucose uptake
 T. thermosulfuricus, 2984
 α -Glucosidase
 B. lambicus, 2352
 β -Glucosidase
 bacterioplankton growth yield, 3916
 gene cloning and sequencing, 927
 Glucosyltransferase
 inhibition by oolong tea, 968
 β -Glucuronidase
 E. coli, 2271
 Glutamate decarboxylase
 detection of *E. coli*, 4347
 Glutamate dehydrogenase
 C. glutamicum, 2329
 Glutamate formation
 C. glutamicum, 2329
 Glutamate 1-semialdehyde 2,1-aminomutase
 gene cloning, 347
 Glutamine
 gibberellic acid production, 4317
 Glutaryl-7-aminocephalosporanic acid acylase
 isolation and characterization, 3321
 Glycerol
 production by *S. cerevisiae*, 2022
 Glycine betaine
 P. aeruginosa and stress, 473
 transport in *S. aureus*, 2734
Glycine max
 ethylene and nodulation, 1947
 Glycosylation
 B. thuringiensis protein crystals, 2666
 Glyoxalate
 C. thermoaceticum acetogenesis, 3062
 Gram-negative soil bacteria
 divergence among *mer* determinants, 4024
 Grape cells
 attachment of agrobacteria, 2572
 Grape juice
 glycerol production, 2022
 Grasses
 fungal endophytes, 1540
 Green olive fermentation
 L. plantarum, 1416
Gremmeniella abietina
 identification of races, 1752
 Groundwater
 degradation of pollutants, 1025
 enterovirus detection, 1318
 leaf decomposition, 3592
 methanotrophic bacteria, 2380
 trichloroethylene degradation, 2746
 Growth
 bacterial growth in river water, 1678
 E. coli O157:H7, 2364
 E. faecium, 3411
 kinetics, 2041
 L. lactis, 4363
 L. lactis during citrate metabolism, 4216
 L. lactis fructose uptake, 3206
 mathematical model, 1887
 mycobacteria in Tween 80, 1425
 pentachlorophenol degraders, 3373
 phototrophic bacteria, 93
 S. cerevisiae, 322
 S. flexneri in foods, 652
 Trichodesmium spp., 1367
 Growth efficiency
 S. bovis, 1747
 Growth kinetics
 modeling for *P. chrysosporium*, 1887
 Growth patterns
 food-borne fungi, 552
 Growth phase
 P. aeruginosa iodine resistance, 2320
 Growth rate
 marine bacterium, 1303
 P. putida plasmid transfer, 3430
 slowly growing marine bacteria, 2594
 Growth yield
 alteration in *E. coli*, 4261
 bacterioplankton, 3916
 Guaiacol
 metabolism, 3424
 GUS gene fusion system
 root colonization studies, 1767
 H_2 - CO_2
 anaerobic O-demethylation, 1325
Haematococcus pluvialis
 carotenoid biosynthesis, 867
 Haloaromatic compounds
 degradation by *A. eutrophus*, 334
 Hand-washing agents
 comparative efficacies, 3463
Hanseniaspora guilliermondii
 acetoin production, 1838
Hansenula polymorpha
 α -galactosidase, 52
 chromosome polymorphisms, 939
Hartmannella vermiformis
 grazing effects on bacteria, 2317
 impact of heat, chlorine, 4096
 Heat production
 S. bovis, 1747
 Heat shock
 P. chrysosporium, 4295
 S. aureus, 1515
 Heat tolerance
 S. enteritidis phage type 4, 3120
 Heat-stable enterotoxin
 Y. enterocolitica, 3314
 Heavy metals
 binding to *P. fluorescens*, 4056
 cadmium, 7
 effect on soil bacteria, 3605
 remobilization by *B. subtilis*, 4323
 resistant *A. eutrophus* strains, 334
 sorption to *Thiothrix*, 1274
Helicobacter pylori
 viability in water, 1231
hemH
 expression in *E. coli*, 2347
 Hemicellulose
 biodegradation, 1963
 Hemoglobin
 cytoplasmic inclusion bodies, 561
 Hemolymph
 indigenous bacteria of bivalves, 1848
 Hepatitis A virus
 concentration method, 3485
 detection, 3963
 detection in sewage sludge, 3165
 hand-washing agents, 3463
 shellfish, 2765

- Hepatitis E virus
detection in wastewater, 2558
- Herbicides
atrazine metabolism, 1955
biodegradation, 2642
- Heterocyclic dye
decolorization, 4010
- Heterologous protein secretion pathways
L. lactis, 3954
- Heterotrophic bacteria
competition for ammonium, 2099
- Hexavalent chromium
enzymatic reduction by *E. coli*, 3771
- High-fiber diets
fecal microflora, 657
- Histidine kinase/response regulator system
subtilin biosynthesis, 296
- HIV-infected lymphocytes
survival in water, 1437
- Hoechst 33342
flow cytometric analysis of marine bacteria, 905
- Hokkaido, Japan
nivalenol-producing *Fusarium* spp., 3334
- Homolog-scanning mutant proteins
B. thuringiensis, 2442
- Homospermidine
pH and osmotic stress effects, 1104
- Human immunodeficiency virus
survival in water, 1437
- Human intestinal epithelial cells
adhesion of bifidobacteria, 4121
- Humic acids
DNA extraction from soils, 2657
- Humidity
C. pneumoniae survival, 2589
- Hybridization
bacteria in drinking water, 2293
cell activity measurement, 1354
mRNA detection in *Streptomyces* cells, 2753
- Hybridization pattern
B. subtilis rRNA genes, 919
- Hydrocarbons
ammonia monooxygenase inhibition, 2501
fuel spills, 467
- Hydrogen
propionate and butyrate degradation, 2546
- Hydrogen peroxide
resistant *B. subtilis* spores, 3418
subsurface bacterium survival, 3545
virus inactivation, 4374
- Hydrogen sulfide
distribution in biofilms, 3840
- Hydromorphone
biosynthesis, 2166
- Hydrophilic pores
formation in target cells, 3577
- Hydrophobic grid membrane filters
aerobic colony count improvement, 2784
- Hydrophobicity
bacterial adhesion, 3255
coryneform bacteria, 3973
thermophilic dairy streptococci, 4305
- 4-Hydroxybutanoate
production from succinate, 1876
- Hydroxydiether lipid structures
methanogens, 912
- Hydroxylation
6-methylquinoline, 2139
- 5-Hydroxyquinoline-2-carboxylic acid
dead-end metabolite, 1898
- 10-Hydroxystearic acid
oleic acid hydration, 281
- N-Hydroxysuccinimide esters
E. coli protein labeling, 663
- Hyperthermophiles
amino acid requirements, 610
- Icelandic hot springs
thermophilic anaerobes, 1963
- Identification
Azoarcus spp., 3816
B. thuringiensis strains and serovars, 114
bacteria in drinking water, 2293
cactus-associated bacteria, 1
common environmental isolates, 3219
endomycorrhizal fungi colonizing roots, 4211
epiphytes with reduced fitness, 1586
G. abietina races, 1752
L. monocytogenes, 144
Listeria spp., 617
molecular variants in mtDNAs, 4283
PCR product patterns, 945
V. vulnificus, 541
- Immobilized microorganisms
ergot peptide production, 2029
6-methylquinoline degradation, 2139
spatial distribution of cells, 1951
- Immunomagnetic separation
Y. enterocolitica, 2938
- Inactivation
viruses, 4374
- IncQ plasmids
mobilization between bacteria, 2257
- Indicator organisms
C. perfringens, 47, 2418
commercial presence-absence test kits, 380
L. monocytogenes thermal inactivation, 1247
somatic coliphages, 2418
- Indigenous bacteria
marine bivalves, 1848
- Indoxyl- β -D-glucuronide
evaluation as a chromogen, 2758
- Induction specificity
p-nitrophenol degradation, 3505
- Inflammatory response
Pseudomonas spp. in mice, 3585
- Inoculants
B. elkanii, 4371
Rhizobium spp., 3666
- Insecticidal protein gene
B. thuringiensis, 1683, 2442, 3922
- Insecticides
B. thuringiensis, 523
biodegradation, 3339
- Insects
B. thuringiensis toxins, 1332, 1821, 1828
bacterial flora of lake fly, 1236
- Intestinal microorganisms
Lactobacillus strains, 15
substrate composition effect (letter), 2763
- Inulin
ethanol production, 729
- Iodine resistance
P. aeruginosa, 2320
- Iron
bacterial reduction, 101
virus inactivation, 4374
- Iron-citrate complexes
biodegradation, 109
- Irradiation
meat and *E. coli* O157:H7, 1030
- ISI380
A. pasteurianus, 1656
- Isolation procedures
actinomycetes in Chesapeake Bay, 997
L. lactis subsp. *lactis*, 3941
Leuconostoc spp., 607
marine bacteria, 881
Mo⁶⁺-reducing bacterium, 1176
plasmid DNA, 2730
Salmonella spp., 2602
sulfate-reducing bacteria, 682
typical marine bacteria, 2150
verotoxigenic *E. coli*, 4223
- Isomaltoligosaccharide syrup
new production method, 953
- Isotactic polypropylene
biodegradation, 3695
- Itoic acid
enzymatic determination, 2343
- Janthinobacterium lividum*
genetic variation, 2214
- Japanese pear
A. alternata, 3197
- Karyotypic variation
rice blast fungus, 585
- KF streptococcal agar
bacterial enumeration in meats, 936
- Killer yeasts
spontaneous wine fermentations, 4037
- Kinetics
bacteria on chlorinated aliphatic compounds, 2041
carbon tetrachloride transformation, 2126
DNA persistence of soil-introduced *E. coli*, 4289
S. cerevisiae maltose transport, 3102
- Kloeckera apiculata*
acetoin production, 1838
- Kluyveromyces lactis*
transformation, 2087
- Kraft pulp
delignification, 260, 266
T. versicolor C metabolism, 1855
- Labeled compounds
production by *M. espanolae*, 1099
- Labeling
E. coli envelope proteins, 663
- Laboratory microcosms
S. dysenteriae detection, 536
- Laboratory water systems
bacteria, 1410
- Laccase
chestnut blight fungus, 3634
purification and characterization, 2607
- Laccase I gene
characterization and analysis, 4129
- Lactacin F operon
molecular analysis, 3906
- Lactate dehydrogenase
M. elsdenii, 255

- Lactate racemase
 M. elsdenii, 255
- Lactic acid
 formation by *L. lactis*, 3206
 production in a biofilm reactor, 203
- Lactic acid bacteria
 bacteriocins, 3003
- Lactobacilli
 cholesterol assimilation, 1120
- Lactobacillus acidophilus*
 DNA probes, 3871
- Lactobacillus bavaricus*
 L. monocytogenes inhibition, 2552
- Lactobacillus plantarum*
 bacteriocins, 1416
 rolling-circle replication plasmid, 274
- Lactobacillus sake*
 sakacin A production, immunity, 2868
- Lactobacillus* spp.
 human intestinal mucosa, 15
 inhibition of *E. coli* adhesion, 34
 plasmid DNA isolation, 2730
 strain differentiation, 3480
- Lactococci
 abortive phage resistance mechanisms, 208
 bacteriophages, 197, 2034, 2449, 3708
 phage resistance, 365
 starter culture rotation, 365
- Lactococcin B
 mode of action, 1041
- Lactococcus lactis*
 cell envelope proteinase, 3640
 citrate metabolism, 4216
 exponential growth, 4363
 genetic manipulation, 1966
 heterologous protein secretion, 3954
 lactococcin B, 1041
 nisin Z and nisZ, 213
 plasmid instability, 358
 X-prolyl dipeptidyl aminopeptidase, 2049
- Lactococcus lactis* bv. diacetylactis
 diacetyl and acetoin production, 1893
- Lactococcus lactis* subsp. *cremoris*
 aminopeptidase N, 1430
 cell wall peptidase, 3076
 cysteine aminopeptidase, 330
 fructose uptake, 3206
 loosely associated cell surface material, 3177
 restriction-modification system, 777
- Lactococcus lactis* subsp. *lactis*
 isolation from nature, 3941
 Tn917, 21
- Lactococcus* spp.
 plasmid DNA isolation, 2730
- Lactose
 fermentation by yeast cells, 4230
- Lake fly
 bacterial flora in larvae, 1236
- Lakes
 bacteriophage diversity, 3378
 flora of lake fly larvae, 1236
- Lanthanide ion solution
 analysis of bacteria, 1187
- Lantibiotics
 salivaricin A, 2014
 streptococcin A-FF22, 1969
 subtilin, 296
- Lard
 hydrolysis by yeasts, 725
- Larus delawarensis*
 impact on recreational water, 1228
- Laser densitometry
 ruminal bacteriophages, 2299
- Leaves
 microbial decomposition, 3592
 P. syringae competition, 3447
- Legionella pneumophila*
 survival in *H. vermiformis*, 4096
- Legionella* spp.
 amoebae as reservoirs, 3245
 detection, 1943, 3618
- Legionellae
 recovery from water samples, 344
- Legumes
 inoculants, 3666
- Lepidopteran-active protein crystals
 nonenzymatic glycosylation, 2666
- Leptosphaeria maculans*
 detection of infected seed, 3681
- Letters to the Editor
 substrate composition and intestinal flora, 2763
- Leuconostoc mesenteroides*
 cabbage fermentation, 3778
- Leuconostoc oenos*
 strain comparison, 3969
- Leuconostoc* spp.
 selective medium, 607
- Lignin
 biodegradation, 438, 4115, 4129
 laccase I gene, 4129
 mineralization, 1792
 T. versicolor C metabolism, 1855
- Lignin peroxidase
 Bjerkandera sp., 4031
 dye decolorization, 4010
 gene expression in white rot fungi, 2897
 overproduction by *P. chrysosporium*, 1919
 S. lividans recombinant, 508
 temporal expression of genes, 3946
 veratryl alcohol effects, 2909
 wood-degrading fungi, 4017
- Ligurian coast rock pools
 V. alginolyticus, 1960
- Linoleic acid
 metabolism by *Trichoderma* spp., 2945
- Lipase
 A. hydrophila human isolate, 2411
 P. freudenreichii, 4004
- Lipid carriers
 cyclodextrins and mycoplasmas, 547
- Lipopolysaccharides
 P. corrugata, 1805
 T. ferrooxidans, 1283
 X. campestris, 4143
- Listeria innocua*
 differentiation from *L. monocytogenes*, 304
 tetracycline resistance, 614
- Listeria monocytogenes*
 biological inactivation, 2914
 detection, 2743
 detection in cheese, 1289
 differences in 16S rRNA genes, 304
 epidemiology, 2817
 inhibition in meat systems, 2552
 listeriolysin O production, 3495
 multilocus enzyme electrophoresis, 3126
 nonradioactive DNA probe, 144
 ovine listeriosis outbreaks, 3126
 recovery of specific sequences, 4367
 RNA probe, 2795
 thermal inactivation, 1247
 typing method, 3117
 virulence, 2082
- Listeria* spp.
 detection, 2698
 identification, 617
 monoclonal antibodies, 2713
 rDNA probe, 2690
- Listeriophages
 L. monocytogenes inactivation, 2914
- Listeriolysin O
 L. monocytogenes, 3495
- Longifolene
 molecular rearrangement, 1691
- Luminous bacteria
 V. splendidus, 2684
- Lupinus nootkatensis*
 inoculants, 3666
- luxA
 V. splendidus ecology, 2684
- Lysine excretion systems
 C. glutamicum, 316
- Lysine-mannitol-glycerol agar
 Salmonella spp., 2602
- Magnaporthe grisea*
 karyotypic variation, 585
- Magnetic immuno-polymerase chain reaction
 detection of salmonellae, 1342
 L. monocytogenes detection, 1289
- Magnetic-antibody technique
 Giardia selective recovery, 772
- "*Magnetobacterium bavaricum*"
 dominating role, 2397
- Magnetotactic bacteria
 dominating role, 2397
- D-Maleate
 production from maleate, 1110
- Maleate
 D-maleate production, 1110
- Maleate hydratase
 P. pseudoalcaligenes, 2823
- Malolactic fermentation
 L. oenos strain comparison, 3969
- Maltose
 transport by *S. cerevisiae*, 3102
- Manganese
 bacterial reduction, 101
 effect on lignin degradation, 4115
- Manganese peroxidase
 gene transcription in *P. chrysosporium*, 4295
 kraft pulp delignification, 260
- Marine bacteria
 agarase 0107 gene cloning, 3750
 alkyl sulfide degradation, 4083
 aminopeptidases, 3701
 carboxymethylcellulase, 1259
 fatty acid composition, 924
 Fe(III) reduction, 734
 flow cytometric analysis, 905
 growth rate estimation, 2594
 isolation by dilution culture, 2150
 nitrogen fixation, 1495
 oxidation of organics, 1452
 phages, 3393
 phylogenetic diversity, 1294
 plasmid transfer, 843
 RNA/DNA ratio, 1303
 rRNA variations, 2430
 sewage sludge disposal site, 3406
 survival mechanism, 2653

- V. splendidus*, 2684
viability and isolation procedures, 881
- Marine environment
biofouling prevention, 3757
Colilert-Marine Water, 786
virus distribution, 4074
- Mating type gene
A. bisporus, 3044
- Meat
enterococci and fecal streptococci, 936
irradiation for *E. coli*, 1030
L. monocytogenes, 2552
- Media
A. vinelandii growth, 4236
bacterial enumeration in meats, 936
carbon tetrachloride transformation, 2126
chromogen for *E. coli*, 2758
E. coli detection, 2271
Leuconostoc isolation, 607
lysine-mannitol-glycerol agar, 2602
mercury(II) toxicity, 1507
nitrate denitrification, 3951
Phytophthora spp., 2323
Pythium spp., 2323
starved cell sensitivity, 2760
total coliforms and *E. coli*, 3534
- Megaplastids
R. leguminosarum bv. trifolii, 1058
- Megasphaera elsdonii
lactate dehydrogenase and racemase, 255
- MEL
polymorphism in genus *Saccharomyces*, 2622
- Membrane filters
recovery of legionellae, 344
- Membranes
glucose toxicity, 2844
hydrophilic pore formation, 3577
R. leguminosarum acid tolerance, 1798
- mer
divergence in soil bacteria, 4024
- Mercenaria mercenaria
hepatitis A virus, 2765
- Mercury
bioluminescent sensors, 3083
toxicity in growth media, 1507
- Mercury methylation
D. desulfuricans, 290
- mer-lux biosensors
detection of Hg(II), 3083
- Metabolism
amino acids and peptides, 3360
5-aminonaphthalene-2-sulfonic acid, 1898
atrazine, 1955, 4342
chlorinated guaiacols, 3424
citrate, 4216
m-cresol, 2229
p-cresol, 1125
3,4-dimethoxybenzoate, 3110
1,2-diphenylethanone, 3477
deoxybenzoin, 3477
fluoranthene, 800
glucose in marine sediments, 120
linoleic acid, 2945
methanol, 3110
mevalonate, 2945
morphine, 2166
naphthalene, 1602
organic thiols, 93
P. putida in soil, 2056
pathways in methanogens, 1092
pectin, 837
plant toxins, 3056
PR toxin metabolites, 981
2-propylphenol, 860
tetralin, 567, 567
trichloroethylene, 1602
xylitol and xylose, 1049
D-xylose, 1487
- Metabolite accumulation
anaerobic toluene utilization, 3157
- Metabolites
atrazine, 4342
polypropylene degradation, 3695
R. leguminosarum, 3385
- Metal ions
adsorption to *S. cerevisiae*, 2851
- Metallosphaera sedula
coal depyritization, 2375
- Metal-reducing bacteria
oligonucleotide probes, 4152
- Metarhizium spp.
molecular variants in mtDNAs, 4283
- Methane
consumption in forest soils, 485
- Methanobacterium espanolae
production of labeled compounds, 1099
- Methanococcus jannaschii
metabolic pathways, 1092
- Methanococcus voltae
hydroxydiether lipid structures, 912
protoplast regeneration, 27
- Methanogenesis
butyrate oxidation, 628
PCB dechlorination, 3027
- Methanogenic aggregates
pH and glucose microprofiles, 3803
- Methanogens
m-cresol metabolites, 2229
growth of propionate oxidizers, 1114
hydroxydiether lipid structures, 912
metabolic pathways, 1092
Neocallimastix fermentative metabolism, 2678
production of labeled compounds, 1099
propionate degradation, 1003
upflow anaerobic sludge blanket reactor, 2538
- Methanol
metabolism by *S. ovata*, 3110
- Methanosarcina spp.
disaggregation, 3832
growth as single cells, 3832
hydroxydiether lipid structures, 912
- Methanotrophs
naphthalene degradation, 1602
soluble methane monooxygenase, 960
subsurface groundwater site, 2380
trichloroethylene degradation, 960, 1602
- Methylation
C. acetobutylicum shuttle vectors, 1077
P. chrysosporium, 1461
- N*-Methylcarbamate insecticides
bacterial degradation, 3339
- Methyl fluoride
ammonium oxidation inhibition, 2457
nitrous oxide formation inhibition, 2457
- Methylglyoxal accumulation
glucose toxicity, 2844
- 4-Methylguaiacol
xylosylation, 438
- Methylmercury
biodegradation, 2479
- Methylomonas methanica*
soluble methane monooxygenase, 960
trichloroethylene degradation, 960
- Methylosinus trichosporium*
copper-resistant mutants, 2771
- Methylotrophs
insecticide degradation, 3339
- 6-Methylquinoline
biodegradation, 2139
- Methyltransferase
aflatoxin biosynthesis, 479
- O*-Methyltransferase
cloning of cDNA, 3564
P. chrysosporium, 706
- 4-Methylumbelliferyl- β -*N*-acetylglucosaminide hydrolysis
protozoan bacterivory marker, 3091
- 4-Methylumbelliferyl- β -D-glucuronidase
E. coli β -glucuronidase expression, 2271
- Metronidazole
Neocallimastix fermentative metabolism, 2678
- Mevalonate
metabolism by *Trichoderma* spp., 2945
- Mexican bean
R. leguminosarum protein banding patterns, 3960
- Mexico City
airborne *Penicillium* CFU, 2648
- Mice
C. parvum dose response, 3661
clearance of *Pseudomonas* spp., 3585
- Microbial ecology
cactuses, 1
- Microbial mats
nitrogen fixation, 1495
- Micrococcus luteus*
dormancy, 3187
- Micrococcus roseus*
synthetic lubricant degradation, 1072
- Microcystins
O. agardhii, 2204
- Microelectrodes
distribution of sulfate reducers, 3840
- Microelectrode technique
nitrifying bacterial aggregates, 573
- Microsensors
nitrification activity, 3287
- Microvinification
recombinant yeast strain, 2801
- Milk
Campylobacter spp., 2161
- Mineral surfaces
T. ferrooxidans adhesion, 4051
- Mineralization
2,4-D, 2904
anthracene, 1931
atrazine *s*-triazine ring, 1695
lignin, 1792
naphthalene, 1931
phenanthrene, 1931
polychlorinated biphenyls, 1194
- Mine tailings
T. ferrooxidans, 1283
- Mini-prep procedures
plasmid DNA isolation, 2730
- Mitochondrial DNAs
molecular variants in fungal isolates, 4283
- Mixed cultures
atrazine mineralization, 1695
- Mobile bacteria
PAH transport in porous media, 3306

- Modeling
E. faecium growth, 3411
P. chrysosporium growth kinetics, 1887
- Moisture
 bacterial growth in cotton bolls, 974
- Mold antigens
 purification and characterization, 2563
- Molecular breeding
 biotin-producing *S. marcescens*, 3225
- Molecular hybridization
 enterovirus detection, 1213
- Molecular rearrangement
 longifolene, 1691
- Molybdenum ion
 reduction by a bacterium, 1176
- Monensin
 bacterial ammonia production, 3250
- Monoclonal antibodies
 abortive phage resistance mechanisms, 208
 lactococcal phages, 2034
Listeria detection, 2698
Listeria spp., 2713
S. colwelliana exopolysaccharide, 1565
- Monokaryons
T. versicolor, 266
- Monoterpenes
 hydroxylation by *B. cereus*, 3889
- Morphine
 metabolism intermediate, 2166
- Mortierella alpina*
 dihomog- γ -linolenic acid production, 4300
- Mosquitocidal proteins
B. sphaericus, 3470
B. thuringiensis, 815
Synechococcus spp., 2404
- Motility
 bacterial transport in porous media, 3455
E. coli in sand, 3686
- mRNA
 detection in *Streptomyces* cells, 2753
 gene expression measurement, 451
- Multilocus enzyme electrophoresis
L. monocytogenes, 3126
L. monocytogenes epidemiology, 2817
- Multiplex polymerase chain reaction
B. thuringiensis, 523
Salmonella spp., 1473
- Munition compounds
 bioremediation of soil, 2171
- Mushrooms
 Chernobyl ^{137}Cs contamination, 134
 mating type gene localization, 3044
- Mutans streptococci
 glucosyltransferase inhibition, 968
- Mycobacteria
 occurrence in brook waters, 398
- Mycobacterium* spp.
 fluoranthene degradation, 800
 growth in Tween 80, 1425
 PAH degradation, 1927
- Mycobacterium vaccae*
 groundwater pollutant degradation, 1025
- Mycolic acids
 coryneform bacterium adhesion, 3973
- Mycoplasmalike organisms
 DNA probes, 1206
- Mycoplasmas
 cultivation, 547
 cyclodextrins as lipid carriers, 547
- Mycorrhizal fungi
 herbicide degradation, 2642
- Mycosporine amino acid-like compounds
 cyanobacteria, 163, 170
- Mycotoxins
 barley and corn in Korea, 3798
 fumonisin B₁, 2673, 2864
 nivalenol, 3334
 polyclonal antibodies, 1264
- NAD(P)H fluorescence
 on-line detection of substrate exhaustion, 604
- Naegleria fowleri*
 lytic amoebicins, 1480
- NAH plasmids
 anthracene, phenanthrene catabolism, 1938
- Nanoplankton
 oligonucleotide probes, 1647
- Naphthalene
 metabolism by methanotrophs, 1602
 mineralization, 1931
- Naphthalene-catabolic gene sequences
 indigenous sediment bacteria, 687
- Neocallimastix frontalis*
 xylanases, 3654
- Neocallimastix* spp.
 fermentative metabolism, 2678
- Neopullulanase
 isomaltoligosaccharide syrup, 953
- Neurotoxicity
 interspecies transfer, 3825
 tetrodotoxin, 3934
- Neurotoxin genes
 detection by PCR, 3011
- Neutral red assay
 Vero cell cytotoxicity, 1981
- Nisin-resistant bacteria
 cabbage fermentation, 3778
- Nisin Z
L. lactis, 213
- nisZ*
L. lactis, 213
- Nitrapyrin
 reductive dehalogenation, 3597
- Nitrate
 denitrification, 3951
 respiration by *E. carotovora*, 3648
- Nitrate-reducing bacteria
o-cresol degradation, 2286
P. aerophilum, 2918
- Nitrate reductase
A. parasiticus gene disruption, 2998
 structural gene, 250
- Nitric oxide
 production by bacteria, 3525
- Nitrification
 activity distribution in sediment, 3287
 nitrous oxide formation, 2457
 sediments, 2093
- Nitrifying bacteria
 competition for ammonium, 2099
 NO and N₂O production, 3525
- Nitrifying bacterial aggregates
 activity distribution, 573
- Nitrotriacetate
 anaerobic degradation, 3350
- Nitrite
 excretion by *Synechocystis* strain, 3161
- Nitrobacter agilis*
 distribution in gel beads, 1951
- Nitrobenzene
 biodegradation, 2520
- Nitrogen
Bjerkandera lignin peroxidase, 4031
 herbicide degradation, 2642
 nitrogen fixer population effects, 3021
 utilization in *A. coenophialum*, 3602
- Nitrogen fixation
 alkane biodegradation, 2977
B. japonicum diversity, 3130
 desert grass root zones, 3021
 marine microbial mat, 1495
Trichodesmium spp., 1367
- Nitrogen limitation
 alkane biodegradation, 2977
 fungi, 2335
- Nitrogenase
 modification in *T. thiebautii*, 669
- Nitrogen-fixing cyanobacteria
 response to ionic-osmotic stress, 899
- p*-Nitrophenol
 degradation, induction specificity, 3505
- p*-Nitrophenol-degrading bacteria
 starvation-survival, 340
- Nitrophenol reductase
R. capsulatus, 1774
- Nitropropanol
 metabolism, 3056
- Nitropropionic acid
 metabolism, 3056
- Nitroreductase
C. perfringens, 1731
- Nitrosomonas europaea*
 ammonia monooxygenase inactivation, 3728
 ammonia monooxygenase inhibition, 2501
 ammonia oxidation inhibition, 3718
 distribution in gel beads, 1951
 nitrapyrin dehalogenation, 3597
 NO and N₂O production, 3525
- 4-Nitrotoluene
 biodegradation, 2239
- Nitrous oxide
 nitrification-linked formation, 2457
 production by bacteria, 3525
- Nivalenol
 production by *Fusarium* spp., 3334
- nod*
 inducers from alfalfa rhizosphere, 636
- Nod metabolites
R. leguminosarum, 3385
- Nodulation
 ethylene and *Glycine max*, 1947
R. leguminosarum, 3385
- Non-*Acremonium* sp. endophytes
 relationships, 1540
- Nonviable bacterial pathogens
 detection by PCR, 3513
- nor-1*
 regulated expression, 1642
- Norsolorinic acid
 conversion to averufin, 2486
- N-terminally modified peptides
 protection from degradation, 3147
- Nuclear ribosomal DNA
A. alternata genetic variation, 3197
- Nucleic acid hybridization
 marine bacterium RNA/DNA ratio, 1303
- Nucleotide sequence
B. subtilis plasmid DNA, 1138
 cellobiohydrolase gene, 3492
crtB, 3150
 extracellular lipase gene, 2411
 β -glucosidase gene, 927

- sakacin A gene, 2868
streptococci A-FF22 gene, 1969
T. saccharolyticum endoxylanase gene, 3134
thermostable aminoacylase, 3878
- Nutrients
 A. salmonicida exopolysaccharide production, 2437
- Nutrient-supplemented pumice
 Rhizobium inoculants, 3666
- Nutristat
 growth of PCP degraders, 3373
- Nutritional assays
 C. difficile, 3985
 Lactobacillus administration, 15
 P. chrysosporium, 1919
 R. salmoninarum, 2178
 Y. enterocolitica toxin synthesis, 3314
- nylC
 enzyme purification, characterization, 3978
- Nylon oligomer degradation gene
 enzyme purification, characterization, 3978
- Nystatin
 xylitol and xylose metabolism, 1049
- O-demethylation
 H₂-CO₂ dependence, 1325
- Oil field production waters
 reverse sample genome probing, 4101
- Oleic acid
 hydration to 10-hydroxystearic acid, 281
- Oligobacteria
 dilution culture, 881
- Oligogalacturonate hydrolase
 C. thermosaccharolyticum, 837
- Oligonucleotide hybridization
 Azoarcus sp. identification, 3816
- Oligonucleotide probes
 activated sludge, 1520
 bacteria in drinking water, 2293
 Frankia strain hybridization, 1709
 marine nanoplanktonic protists, 1647
 S. jonesii, 1607
 S. putrefaciens, 4152
 sulfate-reducing bacteria, 682, 3840
 V. vulnificus, 541, 3474
- Oligotrophic conditions
 conjugative plasmid transfer, 1035
- On-line detection
 substrate exhaustion, 604
- Oocysts
 C. parvum, 4361
 folds or sutures on walls, 2638
- Oolong tea polyphenols
 glucosyltransferase inhibition, 968
- Organic carbon fluxes
 Antarctic coast, 3989
- Organic compounds
 oxidation by S-reducing bacteria, 1452
- Organic matter
 decomposition and bacterial species diversity, 4171
- Organic nutrients
 competitive behavior of bacteria, 3400
- Organic thiols
 metabolism by phototrophs, 93
- Organophosphorus acid anhydrolase
 purification and properties, 3138
- Oscillatoria agardhii*
 microcystins, 2204
- Osmolarity
 Methanosarcina sp. growth, 3832
 sensitivity of starved cells, 2760
- Osmoregulation
 nitrogen-fixing cyanobacteria, 899
 P. aeruginosa, 473
- Osmotic stress
 adaptation of *P. aeruginosa*, 473
 effects of rhizobial polyamines, 1104
- Ostrinia nubilalis* (Hübner)
 delta-endotoxin receptors, 1828
- Outer membrane proteins
 X. campestris, 4143
- Oxalate
 C. thermoacetica acetogenesis, 3062
- Oxidation
 5-aminonaphthalene-2-carboxylic acid, 1898
 ammonium, 2457
 α -cedrene, 1336
 cholesterol, 1425
 dimethylnaphthalene isomers, 1504
 organic compounds, 1452
 pyrrhotite, 1984
 toluene, 1444
- Oxidative stress
 carotenoid biosynthesis, 867
- Oxygen
 consumption in barley rhizosphere, 431
 distribution in biofilms, 3840
 E. coli glucose catabolism, 2465
 L. lactis diacetyl and acetoin production, 1893
- Oysters
 enteric viruses, 631
 V. vulnificus, 1012
 V. vulnificus enumeration, 3519
- Ozone
 cyst inactivation, 3674
 inactivation of *C. parvum*, 4203
- pA1
 rolling-circle replication plasmid, 274
- Pachysolen tannophilus*
 ethanol production, 231
 xylitol, xylose metabolism, 1049
- Packaging
 biomedical waste decontamination, 4335
- Paecilomyces* spp.
 molecular variants in mtDNAs, 4283
- pAgK84
 Agrobacterium biocontrol, 309
- Paracoccus denitrificans*
 nitrate denitrification, 3951
- Paracrystalline surface layers
 dairy propionibacteria, 2369
- Paspalum notatum* Flügge
 A. paspali, 1883
- Pathogens
 C. difficile, 3985
 C. jejuni, 987, 1269
 C. parvum, 3661
 detection by PCR, 3513
 E. coli O157:H7, 2526, 3141, 4245
 inhibition by *Pseudomonas* strains, 2197
 L. monocytogenes, 1289, 2552, 2743
 L. pneumophila, 4096
 Legionella spp., 3618
 Salmonella spp., 1383
 salmonellae in poultry, 1342
 V. cholerae sewer surveys, 2740
 V. vulnificus, 3519
- Y. enterocolitica*, 3314
- Pathovars
 rRNA gene restriction patterns, 851
- Pectate lyase isozymes
 E. chrysanthemi, 1756
- Pectinolytic enzymes
 thermophilic clostridia, 828, 837
- Pediocin PA-1
 cell pore formation, 3577
- Pediococcus acidilactici*
 pediocin PA-1, 3577
- Pelagic bacteria
 sewage sludge disposal site, 3406
- Penicillium roqueforti*
 PR toxin metabolites, 981
- Penicillium* spp.
 airborne CFU, 2648
- Pentachlorophenol
 biodegradation, 389
- Pentachlorophenol-degrading microorganisms
 growth in continuous culture, 3373
- Pentose
 transport in *S. ruminantium*, 40
- 6-Pentyl- α -pyrone
 biosynthesis, 2945
- pepC
 cloning and sequencing, 330
- Peptides
 protection from degradation, 3147
 utilization by ruminal bacteria, 3360
- Peptostreptococcus* spp.
 antibacterial substance, 2876
- Periplasmic [Fe] hydrogenase
 D. vulgaris, 491
- Permethrinase
 B. cereus, 2007
- pH
 E. coli O157:H7 growth, 2364
 effect on hot spring anaerobes, 1963
 effects on rhizobial polyamines, 1104
 listeriolysin O production, 3495
- pH profiles
 B. laevolacticus aggregates, 2474
- Phage-encoded resistance (Per) mechanisms
 lactococci, 2449
- Phage typing
 Listeria sp. identification, 617
- Phanerochaete chrysosporium*
 2,4-D mineralization, 2904
 basidiospore staining, 1675
 BTEX degradation, 756
 cellobiohydrolase gene, 3492
 dye decolorization, 4010
 growth kinetics modeling, 1887
 heat shock induction of gene transcription, 4295
 lignin peroxidase, 1919
 lignin peroxidase gene expression, 2897, 3946
 methylating systems, 1461
 phenolic O-methyltransferase, 706
 spectroscopic analysis, 4253
 2,4,5-trichlorophenol degradation, 1779
 veratryl alcohol effects, 2909
- Phaseolus coccineus*
 R. leguminosarum protein banding patterns, 3960
- Phaseolus vulgaris*
 nitrogen-fixing symbiosis, 4161

- Phenanthrene
biodegradation, 1927
trans-dihydrodiols, 2145
mineralization, 1931
plasmid-mediated catabolism, 1938
- Phenolic hydroxyl groups
xylosylation, 438
- Phenoloxidase
purification and characterization, 2607
- Phenol-utilizing microorganisms
trichloroethylene transformation, 2277
- Phenotype
aquatic bacteria, 807
plasticity in *P. syringae*, 410
R. leguminosarum bv. trifolii, 1058
S. enteritidis isolates, 2884
- 2-Phenylethylamine
production by a *Bacillus* sp., 2720
- ϕLC3
cohesive end region transduction, 1966
- Phosphate
biological removal from wastewater, 3744
effect on tetrodotoxin production, 3981
- Phosphoenolpyruvate carboxykinase
E. coli growth yield, 4261
- Phosphoenolpyruvate carboxylase
E. coli growth yield, 4261
- Phospholipid fatty acid composition
bacteria from metal-tainted soils, 3605
- Photocatalytic oxidation
E. coli and TiO₂, 1668
- Phototrophic bacteria
organic thiol metabolism, 93
R. capsulatus, 1774
- Phylogenetic relationships
P. syringae pv. *syringae*, 4180
- Physicochemical factors
coryneform bacterium adhesion, 3973
oyster hemocytes and *V. vulnificus*, 1012
- Phytopathogens
A. alternata, 3197
actinomycete antagonists, 3899
C. parasitica, 3634
E. carotovora, 3648
E. chrysanthemi, 1756
F. oxysporum, 74, 1767
G. abietina, 1752
L. maculans, 3681
P. corrugata, 1805
P. syringae, 1018, 4180
rice yellow dwarf disease, 1206
serological variability, 1805
X. campestris, 3996
- Phytophthora* spp.
widely accessible media, 2323
- Phytotoxins
coronatine, 1619
- Picloram
reductive dechlorination, 2251
- 3- and 4-Picoline
transformation, 701
- Piggeries
Cu-resistant enteric bacteria, 2531
- Pigs
enteropathogenic *E. coli*, 34
L. acidophilus enumeration, 3871
tetracycline-resistant flora, 1467
- Plant cell walls
substrates for rumen bacteria, 644
- Plantaricins S and T
L. plantarum, 1416
- Plant-inducible pectate lyase isozymes
E. chrysanthemi, 1756
- Plasmid DNA
A. calcoaceticus transformation, 1662
persistence in soil, 3438
protection from restriction, 1077
rapid isolation, sequencing, 1138
rapid mini-prep isolation, 2730
- Plasmids
Agrobacterium spp., 1310
anthracene, phenanthrene catabolism, 1938
E. ictaluri, 2830
instability in *L. lactis*, 358
L. plantarum, 274
PAH mineralization, 1931
R. leguminosarum bv. trifolii, 1058
V. anguillarum, 3863
- Plasmid transfer
Agrobacterium biocontrol, 309
bradyrhizobial populations, 1762
marine bacteria and biofilms, 843
oligotrophic conditions, 1035
recombinant IncQ plasmid, 2257
TOL plasmid in *P. putida*, 3430
- Plate culture
Legionella spp., 3618
- Plating procedures
V. vulnificus, 3519
- Platinum
binding to *P. fluorescens*, 4056
- Pleurotus ostreatus*
lignin degradation, 4115
- Pleurotus pulmonarius*
novel atrazine metabolite, 4342
- Poliioviruses
detection in water samples, 3145
hand-washing agents, 3463
survival in water, 1437
- Polyamines
pH and osmotic stress effects, 1104
- Poly-β-hydroxybutyrate
extraction from *A. vinelandii*, 4236
reducing power availability, 1602
- Polychlorinated biphenyls
biodegradation, 3858
dechlorination, 3027
detection of degradation genes, 4065
mineralization in soil, 1194
soil bioremediation, 1735
- Polyclonal antibodies
trichothecene mycotoxins, 1264
- Polycyclic aromatic hydrocarbons
biodegradation, 1927
biotransformation, 1613, 1977
mineralization, 1931
- Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)
biodegradation, 3233
- Poly(3-hydroxyoctanoic acid)
biodegradation, 1220
- Poly(3-hydroxyoctanoic acid) depolymerase
purification and properties, 1220
- Poly(hydroxybutyrate)
biodegradation, 3233
- Polymerase chain reaction
Azoarcus sp. identification, 3816
B. japonicum, 1702
Campylobacter spp. in food, 2161
contaminated seed detection, 3681
detection of *Campylobacter* spp., 4090
detection of *X. campestris*, 1143
- divergence among *mer* determinants, 4024
- DNA purification, 1972
- E. coli* detection, 353
- enteric viruses in oysters, 631
- enterovirus detection, 1213, 1318
- hepatitis A virus detection, 2765
- hepatitis E virus, 2558
- indigenous sediment bacteria, 687
- L. monocytogenes*, 2795
- Legionella* spp., 1943, 3618
- microbial population profiling, 695
- neurotoxin gene detection, 3011
- nonviable bacterial pathogens, 3513
- PCB degradation genes, 4065
- plasmid DNA persistence in soil, 3438
- rapid identification of bacteria, 945
- S. dysenteriae* 1 detection, 536
- screening for *cryV*-like genes, 1683
- V. cholerae* detection, 556
- Y. enterocolitica*, 2938
- Polymerase chain reaction-coupled ligase chain reaction
L. monocytogenes detection, 2743
- Polymeric dyes
decolorization, 4010
- Polymers
biodegradation, 1555
- Polynuclear aromatic hydrocarbons
transport in porous media, 3306
- Polypropylene
biodegradation, 3695
- Poly-(β-hydroxybutyrate-co-β-hydroxyvalerate)-starch blends
biodegradability, 1242
- Polyvinylpyrrolidone
DNA purification, 1972
- Population densities
P. putida, 2064
- Population dynamics
P. syringae, 1082
rhizobia with bentonite, 743
- Population genetics
Yersinia strains, 442
- Porous materials
bacterial penetration, 3686
- Porous media
PAH transport, 3306
transport of bacteria, 3455
- Potassium chloride
L. monocytogenes virulence, 2082
- Potatoes
bacterial soft rot, 3648
- Potting mixes
pythium damping-off, 4171
- Poultry
detection of salmonellae, 1342
- PR toxin
degradation and metabolites, 981
- Pre-β-lactamase
cytoplasmic inclusion bodies, 561
- Preservatives
C. parvum oocyst viability, 4361
- Pressure
barotolerant deep-sea bacterium, 924
effects on fatty acid composition, 924
- Prevotella intermedia*
serine protease, 2107
- Prevotella ruminicola*
glucose toxicity, 2844
- proBA* operon
Streptococcus bovis, 519

- Prokaryotic repetitive DNA
fingerprinting probes, 1391
- Processing conditions
biomedical waste decontamination, 4335
- Promoter modification
cryIVB gene expression, 2404
- Propionate
complete bacterial oxidation, 1452
degradation, 2546
thermophilic anaerobic degradation, 1003
- Propionate-oxidizing bacteria
fumarate utilization, 1114
- Propionibacterium freudenreichii*
glutamate 1-semialdehyde 2,1-aminomutase, 347
lipase and esterase, 4004
- Propionibacterium thoenii*
bacteriocin production, 83
- Propionicin PLG-1
production by *P. thoenii*, 83
- 2-Propylphenol
metabolism, 860
- Proteases
S. reticuli, 1573
X. campestris, 3996
- Proteinases
expression and processing, 1168
L. lactis, 3640
S. thermophilus H-strains, 177
- Protein banding patterns
R. leguminosarum bv. phaseoli, 3960
- Proteins
B. thuringiensis, 2666
biotinylation in *E. coli*, 663
 δ -endotoxin, 815
insecticidal protein biotinylation, 1821
modification in *T. thiebautii*, 669
secretion pathways in *L. lactis*, 3954
- Proteobacteria
probing activated sludge, 1520
- Protocatechuate 3,4-dioxygenase
gene cloning, 2717
- Proton motive force
bacteriocins, 3003
- Protoplasts
M. voltae, 27
- Protozoa
subsurface of fuel spill areas, 467
- Protozoan bacterivory
ectoenzymatic hydrolysis as marker, 3091
- Protozoan cysts
drinking water, 2418
- Protozoan grazing
bacterial competition for ammonium, 2099
effects on bacteria, 2317
- Pseudobactin
detection, 677
effect on pathogenic fusaria, 74
- Pseudomonas aeruginosa*
adaptation to stress, 473
biofilm heterogeneities, 327
iodine resistance, 2320
- Pseudomonas cepacia*
trichloroethylene degradation, 2746
- Pseudomonas corrugata*
serological variability, 1805
- Pseudomonas cruciviae*
D-threonine dehydrogenase, 2963
- Pseudomonas fluorescens*
competitive survival in soil, 580
copper resistance, 580
- deoxybenzoin metabolism, 3477
ferulic acid transformation, 2244
heavy metal binding, 4056
poly(3-hydroxyoctanoic acid) degradation, 1220
- Pseudomonas pseudoalcaligenes*
maleate hydratase, 2823
nitrobenzene degradation, 2520
- Pseudomonas putida*
acyl-coenzyme A ligase, 1149
adaptation to solvents, 3502
aminopeptidase, 4330
chlorobenzoate catabolism, 2790
containment system, 3713
metabolism, growth in soil, 2056
morphine metabolism, 2166
population density enhancement, 2064
TOL plasmid conjugal transfer rate, 3430
- Pseudomonas* spp.
bromoalkane degradation, 1403
carbon tetrachloride dehalogenation, 1635
carbon tetrachloride transformation, 2126
2-chloroallyl alcohol degradation, 528
glutaryl-7-aminocephalosporanic acid acylase, 3321
inhibition of pathogens, 2197
6-methylquinoline degradation, 2139
4-nitrotoluene degradation, 2239
2-propylphenol metabolism, 860
pulmonary clearance in mice, 3585
siderophore detection, 677
- Pseudomonas syringae*
competition on leaves, 3447
copper hypersensitivity, 1671
copper resistance genes, 1627
dynamics, spread, and persistence, 1082
mutants with reduced fitness, 1593
phenotypic plasticity, 410
tblA gene sequence, 458
- Pseudomonas syringae* pv. glycinea
coronatine production, 1619
- Pseudomonas syringae* pv. syringae
Cu and streptomycin resistance, 1018
DNA sequence variation, 4180
phylogenetic relationships, 4180
- Psychrophiles
survival mechanism, 2653
- Pulmonary clearance
Pseudomonas spp. in mice, 3585
- Pulsed-field gel electrophoresis
E. coli O157:H7, 3141
L. oenos strain comparison, 3969
ruminal bacteriophages, 2299
- Pyrene
biodegradation, 1927
- Pyrobaculum aerophilum* sp. nov.
novel archaeum, 2918
- Pyrococcus furiosus*
amylolytic enzymes, 2614
- Pyrococcus* spp.
amino acid requirements, 610
- Pyrrhotite oxidation
mineral products, 1984
- Pythium* spp.
damping-off severity, 4171
widely accessible media, 2323
- Quality control
bacterial enumeration, 922
- Quaternary ammonium compounds
L. monocytogenes inactivation, 2914
- Random amplification of polymorphic DNA
L. monocytogenes typing, 3117
- Random amplified polymorphic DNA
G. abietina identification, 1752
Listeria sp. discrimination, 304
- rDNA probes
L. monocytogenes, 2690
- Recombinant DNA
detection and transformation, 2657
- Recombinant IncQ plasmid
mobilization between bacteria, 2257
- Recombinational inactivation
A. parasiticus gene, 2998
- Recreational water
impact of ring-billed gulls, 1228
- Reducing power
poly- β -hydroxybutyrate effect, 1602
- Reduction
bacterial Fe or Mn reduction, 101
- Reductive dechlorination
picloram, 2251
tetrachloroethene, 2991
- Reductive dehalogenation
chlorinated benzenes, toluenes, 3266
nitrapyrin, 3597
- Renibacterium salmoninarum*
nutrient requirements, 2178
- Repetitive DNA
fingerprinting probes, 1391
- Repetitive sequences
R. fredii USDA257, 150
R. japonicum classification, 1702
- Replication
plasmid instability, 358
- Resistance
Cu and enteric bacteria, 2531
D. desulfuricans and methylmercury, 2479
lactococci and bacteriophages, 2449
M. trichosporium and copper, 2771
P. aeruginosa and iodine, 2320
S. cerevisiae and freeze-thaw stress, 1065
spores and H₂O₂, 3418
synechococci and phages, 3393
tetracycline and pig fecal flora, 1467
- Respiring bacteria
evaluation in water systems, 3850
viability indicator, 2891
- Restriction endonucleases
effectiveness on bacteriophages, 197
- Restriction fragment length polymorphism
divergence among *mer* determinants, 4024
P. syringae pv. syringae, 4180
- Restriction/modification systems
effectiveness on bacteriophages, 197
L. lactis, 777
- Restriction site maps
P. syringae pv. syringae, 4180
- Revegetation
desertified ecosystems, 129
- Reverse sample genome probing
oil field microbial communities, 4101
- Reverse transcriptase-polymerase chain reaction
enterovirus detection, 3485
hepatitis A virus detection, 3485

- Reverse transcription
 enterovirus detection, 1213
 hepatitis A virus detection, 2765
- RFRS9
 R. fredii repetitive sequence, 150
- Rhinovirus type 14
 chemical disinfection, 1579
- Rhizobia
 desertified ecosystem recovery, 129
 metabolic activity with bentonite, 743
- Rhizobium fredii*
 cellular polyamine contents, 1104
 repetitive sequence RFRS9, 150
- Rhizobium japonicum*
 cellular polyamine contents, 1104
- Rhizobium leguminosarum*
 acid tolerance, 1798
 megaplasmid and acid tolerance, 1058
 Nod metabolites, 3385
 protein banding patterns, 3960
- Rhizobium meliloti*
 isolation of Nod inducers, 636
 tagging with firefly luciferase, 2511
- Rhizobium* spp.
 inoculants for legumes, 3666
- Rhizobium tropici*
 foliar chlorosis induction, 2184
- Rhizosphere
 nod gene inducers, 636
 oxygen consumption, 431
 siderophore detection, 677
- Rhodobacter capsulatus*
 nitrophenol reductase, 1774
- Rhodococcus rhodochrous*
 bacteriophage NJL genome, 97
- Rhodococcus* spp.
 atrazine metabolism, 1955
 α -cedrene oxidation, 1336
 desulfurization genes, 2837
- D-Ribose
 role in D-xylose metabolism, 1487
- Ribosomal DNA
 probe for *Listeria* spp., 2690
- Ribosomal DNA spacer polymorphisms
 rapid identification of bacteria, 945
- Ribotypes
 V. anguillarum, 3863
- Ribotyping
 Lactobacillus strain differentiation, 3480
- Rice blast fungus
 karyotypic variation, 585
- Rice yellow dwarf disease
 mycoplasma-like organisms, 1206
- Rigidoporus lignosus*
 wood decay, 2578
- Ring-billed gull
 impact on recreational water, 1228
- River water batch cultures
 bacterial growth, 1678
- RNA content
 marine bacterium growth rate, 2594
- RNA/DNA ratio
 marine bacterium, 1303
- RNA probes
 L. monocytogenes, 2795
- Rock pools
 V. alginolyticus, 1960
- Rolling-circle replication plasmid
 L. plantarum, 274
- Roots
 colonization by *F. oxysporum*, 1767
 fungal root pathogen antagonists, 3899
 VAM fungus stimulation, 2750
- Rotavirus
 São Paulo, Brazil, 140
- rrm* spacer regions
 rapid identification of bacteria, 945
- rRNA
 bacteria in drinking water, 2293
 direct extraction and purification, 915
 gene hybridization pattern, 919
 variations in marine bacteria, 2430
- 16S rRNA
 Azoarcus sp. identification, 3816
 Frankia strain detection, 1709
 indigenous sediment bacteria, 687
 Listeria sp. discrimination, 304
 marine microorganisms, 1294
 microbial population profiling, 695
 S. jonesii probe, 1607
 sulfate-reducing bacteria, 682
- rRNA-based probes
 environmental isolate identification, 3219
 L. lactis subsp. *lactis*, 3941
 marine nanoplanktonic protists, 1647
- rRNA fluorescence in situ hybridization
 cell activity measurement, 1354
- rRNA gene restriction patterns
 X. campestris pathovars, 851
- Ruminal bacteria
 ammonia production, 3250
 peptide, amino acid utilization, 3360
- Ruminal bacteriophages
 quantification, 2299
- Ruminal microorganisms
 cellobiose, glucose utilization, 2631
 cellulose fermentation, 405
 forage fiber degradation, 3171
 N. frontalis, 3654
 pentose utilization, transport, 40
 peptide degradation protection, 3147
 plant toxin metabolism, 3056
 S. bovis amylase gene, 189
 S. jonesii probe, 1607
 substrates from plant cell walls, 644
 xylanases, 3654
 xylooligosaccharide utilization, 3557
- Ruminococcus albus*
 cellobiose, glucose utilization, 2631
- sacB*
 conditional suicide system, 1361
- Saccharomyces cerevisiae*
 adsorption of metal ions, 2851
 α -galactosidase, 52
 α -amylase expression, 1253
 chromosomal rearrangements, 322
 ethanol production, 729
 ferulic acid transformation, 2244
 freeze-thaw stress resistance, 1065
 glycerol production, 2022
 maltose transport, 3102
 D-xylose metabolism, 1487
- Saccharomyces* spp.
 MEL gene polymorphism, 2622
- Sakacin A
 L. sake, 2868
- salA*
 S. salivarius, 2014
- Salad vegetables
 E. coli O157:H7, 1999
- Salicylate
 P. putida density, 2064
 use by biocontrol bacterium, 2071
- Salinity
 nitrogen-fixing cyanobacteria, 899
 V. vulnificus survival, 2425
- Salivaricin A
 isolation, characterization, 2014
- Salmonella enteritidis*
 phage type 4, 3120
 two smooth colony phenotypes, 2884
- Salmonella* spp.
 detection, 1342, 1383, 1473
 lysine-mannitol-glycerol agar, 2602
- Salmonella typhimurium*
 acid adaptation, 1842
 ATP depletion methods, 3509
- São Paulo, Brazil
 rotavirus in sewage, creeks, 140
- ScrFI restriction-modification system
 L. lactis, 777
- Seafood
 staphylococcal enterotoxin assays, 2210
- Seasonal patterns of bacterial colonization
 cotton bolls, 974
- Seawater
 coated DNA, 712
 detection of *Legionella* spp., 3618
 enterovirus detection, 3485
 hepatitis A virus detection, 3485
 phages, 3393
- Sediment
 anaerobic O-demethylation, 1325
 nitrification activity, 3287
- Sedimentation field-flow fractionation
 enumeration of bacteria, 1864
- Sediments
 bacterial gene sequence amplification, 687
 ferric iron composition, 2727
 glucose metabolism, 120
 magnetotactic bacteria, 2397
 nitrification, denitrification, 2093
 PAH transformation by yeasts, 1613
 PCB degradation gene detection, 4065
 protozoa in fuel spill areas, 467
 tetrodotoxin-producing bacteria, 3934
- Segregational plasmid instability
 L. lactis, 358
- Seine river water
 bacterial growth, 1678
- Selection
 xenobiotic compound degraders, 1717
- Selenomonas ruminantium*
 2-deoxyribose utilization, 2077
 pentose utilization, transport, 40
- Separation
 bacteria from lakes and sewage, 3327
- Serine protease
 P. intermedia, 2107
- Serological variability
 P. corrugata, 1805
- Serology
 E. ictaluri, 2830
- Serratia marcescens*
 biotin overproduction, 2857
 biotin production, 3225
 contact lens solutions, 183
- Sesquiterpenes
 A. flavus cultures, 2264
- Sewage
 contamination of aquifers, 2304
 detection of *Legionella* spp., 3618
 enterovirus detection, 3485
 hepatitis A virus detection, 3485
 rotavirus in São Paulo, Brazil, 140

- Sewage sludge
C. perfringens as indicator, 47
 deep-water disposal, 3406
 detection of *E. coli*, 353
 hepatitis A virus detection, 3165
- Sheep
 listeriosis outbreaks, 3126
- Shellfish
 hepatitis A virus, 2765
V. vulnificus, 2425
 viral and bacterial contamination, 3963
- Shewanella colwelliana*
 monoclonal antibodies, 1565
- Shewanella putrefaciens*
 oligonucleotide probes, 4152
 tetrachloromethane transformation, 3763
- Shigella dysenteriae* type 1
 detection, 536
- Shigella flexneri*
 Bangladeshi foods, 652
- Shuttle plasmids
E. coli, 2807
- Shuttle vectors
 methylation, 1077
- Siderophores
 aerobactin, 942
B. japonicum, 1688
 detection in barley rhizosphere, 677
 enzymatic determination, 2343
- Signy Island, South Orkney Islands
 benthic microbial activity, 3989
- Single-strand conformation polymorphism-
 polymerase chain reaction
 endomycorrhizal fungi, 4211
- Small, acid-soluble spore proteins
B. subtilis H₂O₂ resistance, 3418
- Small-angle X-ray scattering
 bacterial heavy metal binding, 4056
- Snap bean leaflets
P. syringae, 1082
- Sodium acrylate oligomer
 biodegradation, 1555
- Sodium chloride
A. hydrophila inactivation, 4166
L. monocytogenes virulence, 2082
- Sodium dodecyl sulfate-polyacrylamide gel
 electrophoresis
 fecal streptococci in environmental sam-
 ples, 2190
- Soil
Agrobacterium spp., 1310
 alkane biodegradation, 2977
 assumptions about biodegradability, 1201
 bioremediation, 1735, 2171
 conditional suicide system, 1361
 contaminant sorption, transport, 1813
 2,4-D transport, 4266
 degradation of poly(3-hydroxyal-
 kanoates), 3233
 direct extraction of DNA, 2657
 DNA persistence of introduced *E. coli*,
 4289
 DNA purification, 1972
 effects of recombinant actinomycete, 508
 heavy metal effect on bacteria, 3605
 isolation of *nod* inducers, 636
 methane consumption, 485
P. fluorescens competition, 580
P. putida growth, 2056
 PCB mineralization, 1194
 plasmid DNA persistence, 3438
 plasmid transfer, 1762
 toluene and TCE degradation, 1911
 water stress and bacteria, 1560
- Soil bacteria
 divergence among *mer* determinants,
 4024
- Soil columns
 competition for ammonium, 2099
- Solid-state fermentation
 lignin degradation, 4115
- Soluble methane monooxygenase
M. methanica, 960
- Solvent production
C. acetobutylicum, 4198
- Solvents
P. putida adaptation, 3502
- Somatic coliphages
 indicator for viruses and cysts, 2418
- Sonoran Desert
 cactus-associated bacteria, 1
- Sorbitol-positive *E. coli* O157:H7
 virulence, 4245
- Sorption
 2,4-dichlorophenoxyacetic acid, 4266
 subsurface soil contaminants, 1813
Thiothrix and heavy metals, 1274
- Soybean
 common inoculant strains in Brazil, 4371
 ethylene and nodulation, 1947
- Spanish-style green olives
L. plantarum, 1416
- Spatial distribution
 microorganisms in a biofilm, 1951
- Specifically labeled compounds
 production by *M. espanolae*, 1099
- Spectral attenuation
Trichodesmium spp., 1367
- Spectroscopic analysis
 fungal pellets, 4253
- Sphagnum peat
 pythium damping-off, 4171
- Sphingomonas* spp.
 dihalogenated diphenyl ether degrada-
 tion, 3931
- Spoilage bacteria
 inhibition by *Pseudomonas* strains, 2197
- Spores
B. subtilis, 640
 resistance to H₂O₂, 3418
- Sporomusa ovata*
 3,4-dimethoxybenzoate metabolism, 3110
 methanol metabolism, 3110
- Staining
 basidiospores, 1675
- Staphylococcal enterotoxin assays
 seafood, 2210
- Staphylococcus aureus*
 enterotoxin synthesis, 1515
 glycine betaine transport system, 2734
- Staphylococcus auricularis*
 dibenzofuran degradation, 285
 dibenzo-*p*-dioxin degradation, 285
 fluorene degradation, 285
- Starvation
M. luteus dormancy, 3187
- Starvation response
 psychrophilic marine bacterium, 2653
- Starvation-survival
p-nitrophenol-degrading bacterium, 340
- Starved cells
 sensitivity to low osmolality, 2760
- Steady-state diffusion gradients
 degradative microbial consortia, 2388
- Steam sterilization
 biomedical waste, 4335
- Stereochemistry
 aflatoxin biosynthesis, 2486, 2493
- Stereospecificity
 oleic acid hydrations, 281
- Sterilization
 biomedical waste, 4335
- Strain degeneration
S. rimosus, 2220
- Stream bacteria
 antibiotic resistance, 417
- Streptavidin
 secretion by *B. subtilis*, 3894
- Streptococcal A-FF22
 gene cloning, 1969
- Streptococcus bovis*
 amino acid effects, 1747
 α -amylase, 1398
 amylase gene, 189
 α -amylase gene cloning, 3669
proBA operon, 519
- Streptococcus pyogenes*
 lantibiotic gene cloning, 1969
- Streptococcus salivarius*
 salivarin A, 2014
- Streptococcus thermophilus*
 envelope-associated proteinase, 177
- Streptomyces fradiae*
 tylosin biosynthesis, 822
- Streptomyces lividans*
 effects of recombinant in soil, 508
 exo- and endoglucanase genes, 3032
- Streptomyces reticuli*
 cellulose degradation, 1573
- Streptomyces rimosus*
 genetic instability, 2220
- Streptomyces* spp.
 mRNA detection, 2753
- Streptomyces subtilisin* inhibitor-like pro-
 teins
 distribution in streptomycetes, 4338
- Streptomyces thermoviolaceus*
 thermostable chitinase, 620
- Streptomycetes
Streptomyces subtilisin-like proteins,
 4338
- Streptomycin resistance
P. syringae, 1018
- Stressed microorganisms
 carotenoid biosynthesis, 867
 nitrogen-fixing cyanobacteria, 899
 rhizobial polyamines and stress, 1104
V. alginolyticus and Cu, 60
 water stress and soil bacteria, 1560
- Structural stability
B. thuringiensis δ -endotoxin, 2442
- Styrene
P. putida adaptation, 3502
- Subarctic lakes
 cyanobacterial N₂ uptake, 422
- Submerged static culture
P. chrysosporium, 1887
- Substrate composition
 effect on intestinal flora (letter), 2763
- Substrate exhaustion
 on-line detection, 604
- Substrate induction
 anaerobic toluene utilization, 3157
- Substrates
 bacterial growth in river water, 1678
 microbial dimethyl sulfide consumption,
 2723
 plant cell walls and rumen bacteria, 644
 thiols and phototrophs, 93

- Substratum
alginate gene expression, 1181
- Subsurface bacteria
contaminant sorption, transport, 1813, 3306
survival, 3545
transport in porous media, 3455
- Subsurface marine microbial communities
phylogenetic diversity, 1294
- Subsurface microbial communities
methanotrophs, 2380
- Subsurface sediments
anaerobic O-demethylation, 1325
protozoa, 467
- Subtilin
biosynthesis, 296
structural variant properties, 648
- Subtractor probe hybridization
L. monocytogenes, 4367
- Succinate
complete bacterial oxidation, 1452
conversion to 4-hydroxybutanoate, 1876
- Succinivibrio dextrinosolvens*
glucose and CO₂ metabolism, 748
- Sulfate-reducing bacteria
complete organic oxidation, 1452
complete toluene oxidation, 1444
distribution in biofilms, 3840
monitoring of enrichment, isolation, 682
- Sulfate reduction
3- and 4-picoline transformation, 701
- Sulfites
glycerol production, 2022
- Sulfur
bacterial Fe or Mn reduction, 101
- Sulfur compounds
ammonia oxidation inhibition, 3718
- Sunscreen agents
mycosporine amino acid-like compounds, 163, 170
- Surface properties
A. salmonicida, 2437
- Surfaces
bacterial exopolymer synthesis, 3280
- Survival
A. salmonicida in lake water, 874
C. pneumoniae in aerosols, 2589
denitrifying bacteria, 3297
E. coli O157:H7, 1999, 2364
freeze-dried bacteria, 594
H. vermiformis, 4096
P. fluorescens in soil, 580
psychrophilic marine bacterium, 2653
S. flexneri in foods, 652
subsurface microorganisms, 3545
V. vulnificus, 2425
viruses in water, 1437
- Symbiosis
grass and fungal endophytes, 1540
- Synechococcus* spp.
coexistence with cyanophages, 3393
cryIVB gene expression, 2404
cyanophages, 3736
- Synechocystis* spp.
nitrite excretion, 3161
- Synergistes jonesii*
oligonucleotide probe, 1607
- Synthetic lubricant
biodegradation, 1072
- Syntrophic bacteria
fumarate utilization, 1114
- Tabtoxin biosynthesis
tblA gene sequence, 458
- Tampons
V. cholerae sewer surveys, 2740
- Tannase
detection, 1251
- tblA*
sequence, 458
- TECRA kit
staphylococcal enterotoxin assays, 2210
- Temperature
acetate degradation, 1742
bacterial growth in river water, 1678
C. pneumoniae survival, 2589
E. coli O157:H7 growth, 2364
effect on hot spring anaerobes, 1963
effects on fatty acid composition, 924
gene expression in *E. coli*, 3485
glycerol production, 2022
H. vermiformis heat survival, 4096
indigenous bacteria of bivalves, 1848
listeriolysin O production, 3495
Thermus fatty acid effects, 1975
V. vulnificus survival, 2425
- Temperature shift
S. enteritidis phage type 4, 3120
- Tetrachloroethene
reductive dechlorination, 2991
- Tetrachloromethane
biotransformation, 3763
- Tetracycline resistance
fecal flora of pigs, 1467
L. innocua, 614
- 1,2,3,4-Tetrahydronaphthalene
metabolism, 567
- Tetralin
metabolism by a corynebacterium, 567
- Tetrazolium salts
indicator of bacterial viability, 2891
- Tetrodotoxin-producing bacteria
A. tetraodonis, 3981
freshwater sediments, 3934
- Thermal inactivation
A. hydrophila, 4166
L. monocytogenes, 1247
- Thermal shock
S. aureus, 1515
- Thermal tolerance
psychrophilic marine bacterium, 2653
Thermoanaerobacter ethanolicus
autoplasts, 3498
Thermoanaerobacter thermosulfuricus
glucose uptake, 2984
Thermoanaerobacterium saccharolyticum
endoxylanase, 3134
xylanolytic enzymes, 763
Thermococcus litoralis
amylolytic enzymes, 2614
Thermomonospora fusca
exo- and endoglucanase genes, 3032
- Thermophiles
amylolytic enzymes, 2614
dairy streptococci, 4305
Icelandic hot springs, 1963
P. aerophilum, 2918
pectinolytic enzymes, 828, 837
propionate degradation, 1003
protease expression, processing, 1168
T. thermophilus, 2737
T. thermophilus crtB, 3150
white *Thermus* strain, 1975
- Thermostable xylanase
B. stearothermophilus, 1725
- Thermus* spp.
fatty acids and temperature, 1975
- Thermus thermophilus*
crtB cloning and sequencing, 3150
recombination-deficient mutants, 2737
- Thin-film magnetopheresis
bacteria in Er(III) solution, 1187
- Thiobacillus ferrooxidans*
adhesion to pyrite, 4044
lipopolysaccharides, 1283
pyrrhotite oxidation, 1984
surface chemistry and adhesion, 4051
- Thiothrix* spp.
heavy metal sorption, 1274
- D-Threonine dehydrogenase
P. cruciviae, 2963
- Tigriopus fulvus* (Fisher 1860)
association with *V. alginolyticus*, 1960
- Tilletia* spp.
triacylglycerol profiles, 1054
- Titanium dioxide
E. coli inactivation, 1668
- Tn5-like sequences
detection in Km^r stream bacteria, 417
- Tn917
insertion into *L. lactis*, 21
- Tolerance
C. thermoaceticum and cadmium, 7
- TOL plasmids
conjugal transfer rate, 3430
- Toluene
anaerobic utilization by strain T1, 3157
biodegradation, 1911
complete bacterial oxidation, 1444
- Tolypocladium* spp.
molecular variants in mtDNAs, 4283
- Total coliforms
detection, 786, 3534
- Tax5
expression in *G. pulicaris*, 2359
- Toxins
B. thuringiensis, 1828
botulinum toxin, 2339
metabolism by ruminal microorganisms, 3056
microcystins, 2204
Y. enterocolitica, 3314
- Trace metals
carbon tetrachloride transformation, 2126
- Trametes versicolor*
carbon metabolism, 1855
kraft pulp delignification, 266
manganese peroxidase, 260
- Transduction
plasmid with ϕ LC3 cohesive end, 1966
- Transformation
carbon tetrachloride, 2126
dihalogenated diphenyl ethers, 3931
ferulic acid, 2244
lard lipids, 725
3- and 4-picoline, 701
polycyclic aromatic hydrocarbons, 1613
- Transglycosylation
isomaltoligosaccharide syrup, 953
- Transmission electron microscopy
bacterial heavy metal binding, 4056
- Transport mechanisms
A. vinelandii and sugar, 89
bacteria in porous media, 3455
2,4-dichlorophenoxyacetic acid, 4266
pentose in *S. ruminantium*, 40
polynuclear aromatic hydrocarbons,

- 3306
S. aureus and glycine betaine, 2734
S. cerevisiae and maltose, 3102
 subsurface soil contaminants, 1813
 Transposon mutagenesis
X. bovienii, 3050
 Treated-sewage contamination
 effect on aquifer bacteria, 2304
 Triacylglycerol
Tilletia spp., 1054
s-Triazine ring
 atrazine mineralization, 1695
 2,3,6-Trichlorobiphenyl
 dechlorination, 3027
 Trichloroethylene
 biodegradation, 1911, 2746
 biotransformation, 2277
 degradation by a methanotroph, 960
 metabolism by methanotrophs, 1602
 2,4,5-Trichlorophenol
 biodegradation, 1779
 2,4,5-Trichlorophenoxyacetic acid
 mineralization, 2904
Trichoderma reesei
 α -galactosidase, 1347
Trichoderma spp.
 6-pentyl- α -pyrone biosynthesis, 2945
Trichodesmium spp.
 cultivated species, 1367
 nitrogen fixation, 1367
 spectral attenuation, 1367
Trichodesmium thiebautii
 cytochrome oxidase, 3239
 modification of Fe protein, 669
 Trichothecenes
G. pulicaris, 2359
 2,4,6-Trinitrotoluene
 bioremediation of soil, 2171
 Triphenyl methane dye
 decolorization, 4010
trp gene cluster
 cloning, 791
 Tuscany region of Italy
 killer yeasts, 4037
tutA
 L-DOPA production, 3070
 Tween 80
 growth of mycobacteria, 1425
 Tylosin biosynthesis
S. fradiae, 822
 Typing systems
L. monocytogenes, 3117
 Tyrosine phenol-lyase gene
 L-DOPA production, 3070

uidA gene sequence distribution
E. coli, 2271
 Ultrastructure
C. parvum oocyst walls, 2638
 Upflow anaerobic sludge blanket reactors
 acetate degradation, 1742
 acetate-utilizing granules, 2538
 pH, glucose microprofiles in granules,
 3803
 propionate and butyrate degradation,
 2546
 Uptake hydrogenase
P. vulgaris symbioses, 4161
 Uptake mechanisms
 amino acids and peptides, 3360
 cyanobacteria and N_2 , 422
 glucose in marine sediments, 120
 glucose and *T. thermosulfuricus*, 2984
L. lactis and fructose, 3206
P. syringae and Cu, 1671
 Uranium
 binding to *P. fluorescens*, 4056
 reduction by *D. vulgaris*, 3572
 Urbanization
 airborne *Penicillium* CFU, 2648
 UV-absorbing compounds
 cyanobacteria, 163
 UV irradiation
B. subtilis spore photoproduct, 640
 subsurface bacterium survival, 3545
 UV-visible spectrum diffuse reflectance
 spectroscopy
 fungal pellet analysis, 4253

 Vaginal tampons
V. cholerae sewer surveys, 2740
 Valerate
 complete bacterial oxidation, 1452
 Vanadium nitrogenase
A. paspali, 1883
 Vannilyl alcohol
 xylosylation, 438
 Vectors
X. bovienii transposon mutagenesis,
 3050
 Vegetables
Leuconostoc sp. isolation, 607
ver-1
 regulated expression, 1642
 Veratryl alcohol
 effects on lignin peroxidase, 2909
 Vero cell cytotoxicity
 measurement, 1981
 Versicolorin B
 versiconal conversion, 2493
 Versiconal
 conversion to versicolorin B, 2493
 Versiconal hemiacetal acetate
 racemization, 2493
Verticillium spp.
 molecular variants in mtDNAs, 4283
 Vesicular-arbuscular mycorrhizal fungi
 stimulation, 2750
 Viability
C. parvum oocysts, 4361
H. pylori in water, 1231
 marine bacteria, 881
 respiring bacteria, 2891
 water-stressed soil bacteria, 1560
Vibrio alginolyticus
 copper stress, 60
 occurrence in rock pools, 1960
Vibrio anguillarum
 ribotypes and plasmid contents, 3863
Vibrio anguillarum-related organisms
 characterization, 2969
Vibrio cholerae
 detection in foods, 556
 tampons in sewer surveys, 2740
Vibrio harveyi
 attachment to chitin, 373
Vibrio splendidus
 ecology, 2684
Vibrio spp.
agaA cloning, sequencing, 3750
 new agarase, 1549
Vibrio vulnificus
 association with oyster hemocytes, 1012
 enumeration, 3474
 enumeration in oysters, 3519
 identification, 541
 survival, 2425
 Virulence
E. coli O157:H7, 4245
L. monocytogenes, 2082
V. anguillarum-related organisms, 2969
 Virulence factors
L. monocytogenes, 3495
 Viruses
 coastal distribution, 4074
 drinking water, 2418
 F-specific RNA bacteriophages, 2956
 hand-washing agents, 3463
 inactivation, 4374
 Key Largo, Florida, 718
 quantification, 3123
Vitreoscilla hemoglobin
 cytoplasmic inclusion bodies, 561
 Volatile compounds
A. flavus, 2264

 Wastewater
 biological removal of phosphate, 3744
 hepatitis E virus, 2558
 Wastewater aeration tanks
 bacterial aerosol emission rates, 3183
 Water
 detection of *Campylobacter* spp., 4090
 enterovirus detection, 1213
Giardia selective recovery, 772
H. pylori viability, 1231
 impact of ring-billed gulls, 1228
Legionella spp., 1943
 mycobacteria, 398
 nitrogen fixer population effects, 3021
 poliovirus detection, 3145
 rapid AOC measurement, 1526, 1532
 recovery of legionellae, 344
 total coliforms and *E. coli*, 3534
 virus survival, 1437
Y. enterocolitica, 2938
 Water purification systems
 bacteria, 1410
 Water-soluble formazan
 indicator of bacterial viability, 2891
 Water stress
 soil bacteria, 1560
 Wetland soil
 dicamba degradation, 2332
 White rot fungi
 forage digestibility improvement, 4274
 lignin mineralization, 1792
 lignin peroxidase overproduction, 1919
 2,4,5-trichlorophenol degradation, 1779
 Whole-cell hybridization
Frankia strains, 1709
 Wine yeasts
 recombinant strain, 2801
 Winemaking
 acetoin production, 1838
 killer yeasts, 4037
 Wood decay
R. lignosus, 2578
 Wood-degrading fungi
 lignin peroxidases, 4017
 Woody legumes
 desertified ecosystem recovery, 129

Xanthomonas campestris
 characterization of pathovars, 851
 copper resistance genes, 1627

- lipopolysaccharides, 4143
- outer membrane proteins, 4143
- protease gene expression, 3996
- Xanthomonas campestris* pv. citri
 - detection, 1143
- Xenobiotic compounds
 - selection of degraders, 1717
- Xenorhabdus bovienii*
 - transposon mutagenesis, 3050
- X-prolyl dipeptidyl aminopeptidase
 - L. lactis*, 2049
- Xylanase
 - A. pullulans*, 3212
 - B. polymyxa*, 1376
 - B. stearothermophilus*, 1725
- N. frontalis*, 3654
- Xylanolytic enzymes
 - T. saccharolyticum*, 763
- Xylitol
 - ethanol production, 231
 - metabolism, 1049
- Xylooligosaccharides
 - utilization by ruminal bacteria, 3557
- Xylose
 - ethanol production, 231
 - metabolism, 1049
- D-Xylose
 - metabolism by *S. cerevisiae*, 1487
- Xylosylation
 - lignin model compounds, 438
- phenolic hydroxyl groups, 438
- Yeast pheromone α -factor
 - α -amylase expression in yeast, 1253
- Yeasts
 - acyl-specific hydrolysis of lard, 725
 - ethanol production, 729
 - lactose fermentation, 4230
 - PAH transformation, 1613
- Yersinia enterocolitica*
 - detection in foods, water, 2938
 - heat-stable enterotoxin synthesis, 3314
- Yersinia* spp.
 - population genetics, 442

